Geological, Geochemical and Prospecting Report Undertaken On The

Kinaskan Lake Property

Liard Mining District
Iskut VillageArea, British Columbia

Latitude: 57 ^{0} 46' N
Longitude: 130 ^{0} 15' W
NTS: 104 G/ 9 & 16
BCGS: 104 G 69,70,79,80,90

Prepared For:
Royal County Minerals Ltd. (Operator)
Viceroy Resources (Owner)

Prepared By:
Keewatin Consultants 2002
A. Travis, B.Sc. Geology

April 1, 2003

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I. Summary and Recommendations

The Kinaskan Lake Project encompasses a twenty-seven mineral claim, 13,052 hectare property located on the Klastline Plateau of northwestern British Columbia approximately 200 km. north of Stewart and 75 km. south of Dease Lake. The claims are owned by Viceroy Resource Corporation of Vancouver and are under option to Consolidated Earth Stewards Inc. (now Royal County Minerals) of Kelowna, BC.

Underlying geology has been mapped as Upper Triassic, Stuhini Group basic volcanics, volcaniclastics and sedimentary rocks and Lower Jurassic, Hazelton Group andesitic to felsic volcanics and volcaniclastics. Early Jurassic quartz diorite to monzonite stocks, dykes and sills occur throughout the property. Similar aged felsic intrusives outcrop in the west central and far northeast parts of the property.

The dominant forms of property mineralization are closely associated with the intrusives and include porphyry copper-gold and peripheral, precious metal-bearing, sulphide rich quartz veins. Work by previous exploration companies searching for these target types has developed three areas to the point where they are ready for immediate trenching or drilling. These include the Gordon Vein Area where previous drilling on the Upper Gordon target intersected 19.9 g/t Au and 202.3 g/t Ag over 2.47 meters (true thickness) in hole 91-4; the Horn East-What Now area where previous soil sampling outlined a >60 ppb gold anomaly measuring about 1.5 km long by 75 to 100 meters wide and where silt samples on untested ground 550 meters to the east range up to 4500 ppb Au and grabs of float have returned values to 2.12 oz / ton Au; and Trevor Peak where at least 3 vein/shear systems have been uncovered and results to 0.524 oz / ton Au across 1.5 meters (true thickness) at the Ferro vein have been obtained.

In addition, a number of other targets ranging from silt anomalies (345 ppb Au/1.55 ppm Ag; Quash Creek) to areas yielding highly anomalous gold and silver values in rock (15,500 ppb Au/11.0 ppm Ag, QC west; 5800 ppb Au/11.7 ppm Ag, Tuk; 0.697 oz / t Au over 0.5 meters, Wolf-Blow Down) have been identified but require further prospecting, rock and soil sampling and possibly geophysics to define specific trench and drill targets.

During the 2002 field season a total of 64 mandays was spent on the property in two main areas, Gordon Vein and Horn East with a total expenditure of $ 75,000. The work at Gordon consisted of the collection of 39 rock samples and 171 soil samples and involved the extension of the previous Gordon Soil Grid to the southeast and prospecting and sampling in the general area. Encouraging rock sample results include a new discovery low down on Gordons Creek which returned 15 g/t Au, Cu 0.4%, Pb 2%, Zn 6.7% and Ag 197 g/t from subcrop in a talus slope, values of 7-11.6 g/t Au from the Main-Top showing area and Cu-Au values to 1.6% Cu and 3 g/t Au in an area to the southeast of Gordon. This area to the southeast represents another new discovery and is also the site of soil values up to Au 1341 ppb. Prospecting and extension of soil lines in this area is highly recommended to test for high-grade gold structures and/or Cu-Au porphyry style mineralization.

The work at Horn East included the collection of 99 rock and 325 soils. The rock samples show one sample that returned greater than 1 g/t Au, at 6.95 g/t Au from quartz vein float. The remaining rock samples show considerable values in lead (to 4.5% Pb) and zinc (to 10% Zn) from numerous (>20) discontinuous quartz veins in an newly discovered area called the Second Honeymoon, unfortunately gold values are usually less than 200 ppb. Other areas of interest include a gossanous area immediately SW of the Second Honeymoon area with elevated copper (to 0.85% Cu) and weak (192 ppb) gold in quartz/carbonate altered zones. Upstream of the previous gold anomalies semi-massive lenses of chalcopyrite (Copperside Showing) have returned values to 9.7% Cu, but show little gold. The soil samples show 8 samples that returned > 100 ppb Au with highs to 796 ppb Au, concentrated in the NW corner of the grid. Four soils returned values > 400 ppm Cu in an area down slope of the Second Honeymoon showing. This work program has demonstrated that new showings can be found in areas previously worked and that substantial gold anomalies have been returned from soil sampling. This work also indicates that prospecting and sampling is warranted in the anomalous soil sample areas, something that could be done in co-ordination with continued follow up on other targets, of such things as a previous 2 oz/t Au rock float sample near the Horn Showing to the south.

The principal exploration targets on the Kinaskan Lake property are high-grade, gold and silver bearing quartz veins occurring peripheral to Early Jurassic intrusive rocks that are associated with copper-gold mineralization. Exploration work by previous operators in conjunction with the 2002 field program has identified and developed a number of targets to the stage which in the opinion of the author demonstrates the character of the property is of sufficient merit to justify further exploration programs be carried out. A proposed work program consisting of two phases has been recommended. A Phase I phase estimated to cost $200,000 which consists of a pre-field and field component. The pre-field work should consist of the thorough compilation of the millions of dollars of previous work into a GIS database and consideration of remote sensing work. The field work which covers work intended to be completed in the spring-summer of 2003 includes soil sampling along constructed grids, geological mapping, prospecting, rock sampling and hand trenching over the Gordon, QC Area, Horn East, Tuk and Trevor Peak areas. It also includes a contingent Phase II phase estimated to cost $500,000 which consists of continued geological follow up, an IP survey at Horn East and 1500 metres of diamond drill testing of the Upper Gordon, Horn East and Trevor Peak targets.

II. LOCATION AND ACCESS

The Kinaskan Lake project is situated in the Liard Mining Division within the Stikine region of northwestern British Columbia, Canada (see Figure 1). The claims are plotted on British Columbia Government claim map sheets 104G069, 104G070, 104G079, 104G080 and 104G090.

The property is situated approximately 200 km. north of Stewart B.C., with the closest populated centre of Iskut Village, located 13 km. to the northeast along Highway 37. The southeastern edge of the claim block is about 650 meters west of the northern end of Kinaskan Lake. The center of the 18.5 km. long by 11.6 km. wide property is at approximate UTM co-ordinates 427500 East and 6398000 North.

Access into the area is via Highway 37 (Stewart-Cassiar) from the main centers of Smithers and Prince Rupert a traveling time of approximately 6 hours on the all weather roads. Access to the claims which are located approximately 5 kilometres west of the *highway is then best accomplished by use of a helicopter, which is based all year round* out of Dease Lake.

Accommodation, meals, phone and fax are available at Eddontenajon, 2 km south of Iskut Village and 20 km. northeast from the center of the property. A helicopter staging area, covered storage and local expediting services are available at the Tenajon Motel in Eddontenajon.

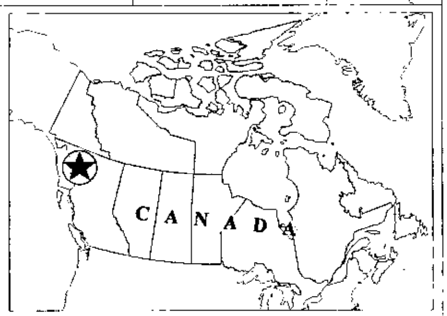
At Iskut Village groceries and gasoline can be purchased. Food, groceries, accommodation, gasoline and hardware supplies are also available in Dease Lake.

ROYAL COUNTY
MINERALS CORP.

KINASKAN LAKE PROJECT

LOCATION MAP

DATE:	JULY 2002	NTS:	104G090
SCALE:	1:8,000,000	FIGURE NO:	1



III. TOPOGRAPHY AND PHYSIOGRAPHY

The Kinaskan Lake property is situated along the top and eastern edge of the Klastline Plateau. Topography varies from fairly subdued with gently rolling hills atop the plateau, to extremely rugged with steep slopes and cliffs along the deeply incised creek valleys.

At the higher elevations both south of the QC porphyry target in the vicinity of the Horn 1 claim and south of the Tuk claim the final remnants of small glaciers can be found.

Elevations on the property vary from 825 meters (2700 ft.) along the southeast side of the property near Kinaskan Lake to 2110 meters (6972 ft.) in the northwest.

For the most part vegetation is limited and consists primarily of alpine grasses, flowers and lichen on the plateau with occasional shrubs and stunted spruce in hollows or wind protected areas. Poplar and slide-alder are common at the lowest elevations along creek valleys while spruce and balsam are common along the steeper slopes overlooking Kinaskan Lake to the east, Nuttlude Lake to the west and along both sides of Quash Creek to the north.

At about the 1310 meter (4300 ft.) elevation a band of sub-alpine scrub meanders throughout the property. The tree line is at about the 1370 meter (4500 ft.) elevation

The climate in the area is semi arid with moderately warm summers and cold dry winters. Typical temperature ranges are from mid to upper 20's C in summer and –20 to –30 C in winter. Precipitation averages about 100 cm. per year. Thick accumulations of snow are common in winter.

Fieldwork can normally start at lower elevations in early June and at the upper elevations by July. Cold weather, winds and snow squalls make field work difficult at the upper elevations past September although drilling programs have continued well into November at the nearby Red Chris deposit where weather conditions are similar.

IV. CLAIM DETAILS

The property consists of 528 units within twenty-seven mineral claims covering 13,052 hectares on the Klastline Plateau. The claims, which occur in two separate blocks are all of the 4-post, located variety. The principal block is comprised of twenty-six contiguous claims constituting 508 units. The second block, located about 4.4 km. to the north, consists of a single, 20 unit claim. The property includes no surface rights nor has it been legally surveyed.

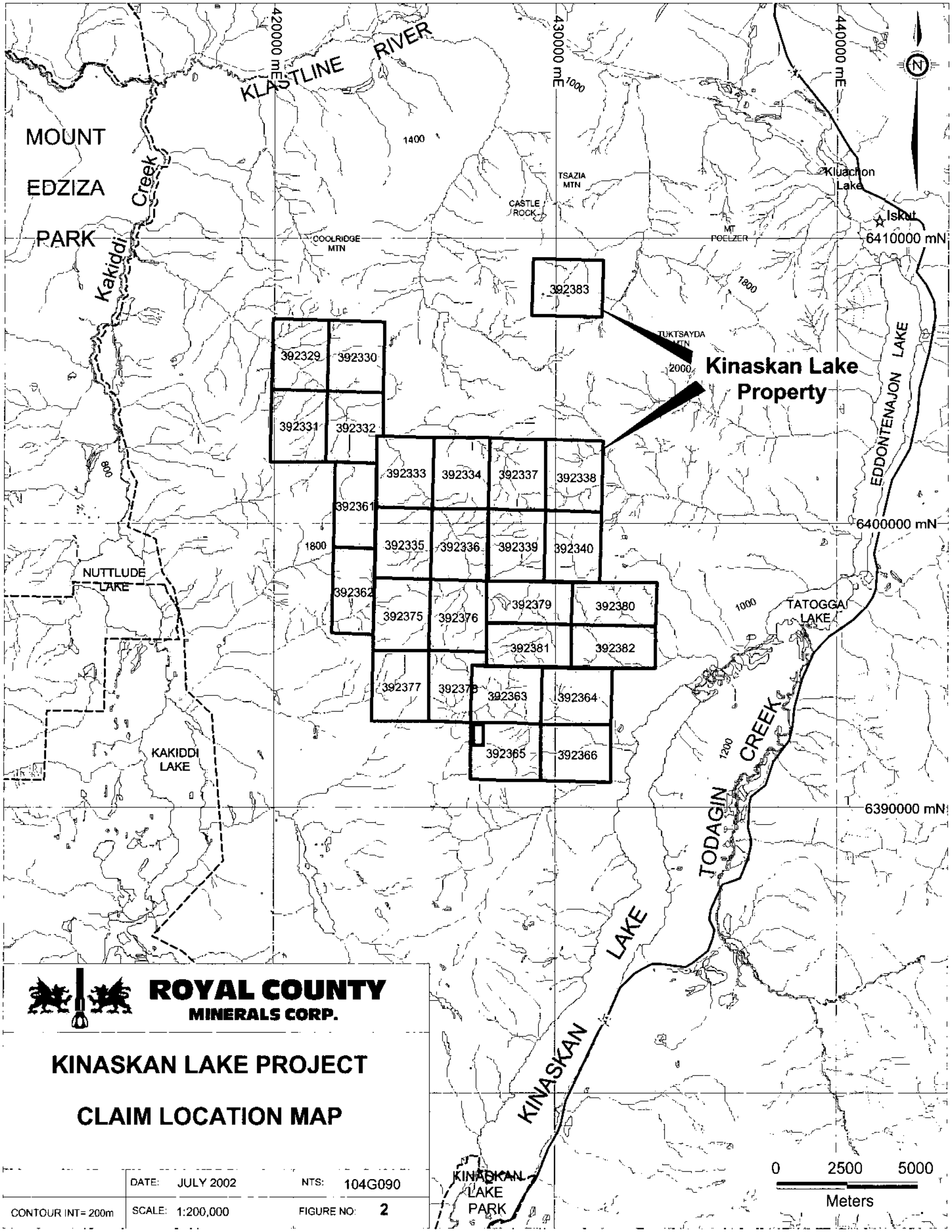
A complete list of claims along with claim size (units), tenure numbers and expiry date occurs in the following Table.

Table 1 Kinaskan Lake Property Claims

Claim Name	Tenure Number	Tag Number	No. of Units	Expiry Date*	Map Number
QC 1	392329	238709	20	Mar. 7/2003	104G079
QC 2	392330	238710	20	Mar. 7/2003	104G079
QC 3	392331	238711	20	Mar. 7/2003	104G079
QC 4	392332	238712	20	Mar. 7/2003	104G079
QC 5	392333	238713	20	Mar. 7/2003	104G079
QC 6	392334	238714	20	Mar. 7/2003	104G079
QC 7	392335	238715	20	Mar.7/2003	104G079
QC 8	392336	238716	20	Mar. 7/2003	104G079
QC 9	392337	238735	20	Mar. 10/2003	104G080
QC 10	392338	238736	20	Mar. 10/2003	104G080
QC 11	392339	238737	20	Mar. 10/2003	104G080
QC 12	392340	238738	20	Mar. 10/2003	104G080
Horn 1	392361	238717	18	Mar. 7/2003	104G079
Horn 2	392362	238718	18	Mar. 7/2003	104G079
T 1	392363	238719	20	Mar. 7/2003	104G070
T 2	392364	238720	20	Mar. 7/2003	104G070
T 3	392365	238721	20	Mar. 7/2003	104G070
T 4	392366	238722	20	Mar. 7/2003	104G070
SH 1	392375	238727	20	Mar. 10/2003	104G069
SH 2	392376	238728	20	Mar. 10/2003	104G069
SH 3	392377	238729	20	Mar. 10/2003	104G069
SH 4	392378	238730	20	Mar. 10/2003	104G069
SS 1	392379	238731	18	Mar. 10/2003	104G080
SS 2	392380	238732	18	Mar. 10/2003	104G080
SS 3	392381	238733	18	Mar. 10/2003	104G080
SS 4	392382	238734	18	Mar. 10/2003	104G080
TUK 1	392383	238739	20	Mar. 10/2003	104G090

* Note Date Prior to Acceptance of this report and assessment work

All twenty-seven mineral claims comprising the Kinaskan Lake property (listed in the above table) are owned by Viceroy Resource Corporation of 900 – 570 Granville Street, Vancouver, British Columbia, Canada. On May 15, 2002, Consolidated Earth Stewards Inc., C.E.W (now Royal County Minerals) of suite 810-1708 Dolphin Ave., Kelowna, B.C. entered into an option agreement with Viceroy Resources to acquire a 100% interest in the property.



Source of Information: http://www.em.gov.bc.ca/Mining/Geolsurv/MapPlace

V. HISTORY

The Kinaskan Lake project is located in the Stikine River area of northwestern B.C., a region well known for its alkalic plutons, associated porphyry copper-gold mineralization and peripheral gold-silver bearing quartz veins.

The first recorded exploration work carried out in the area dates back to 1964 when Conwest Exploration Co. Ltd. carried out a regional evaluation of the Klastline Plateau and identified a number of porphyry copper-gold and precious metal shear-vein targets on the plateau including the QC porphyry system and the Horn (SF) silver prospect (Figure 3). After staking claims over both prospects, follow-up exploration programs were carried out. At the QC this included limited silt and soil geochemical surveys along with a small ground magnetometer survey in 1964 followed by 2.19 km of I.P. and 1.83 km of ground magnetometer geophysical surveys over 2 lines in 1965. In 1969, further silt sampling along with detailed geological mapping (1" = 200 ft.), soil sampling and a ground magnetometer survey were conducted over the malachite-stained, Q.C. gossan zone. In 1970 Amoco optioned the project from Conwest and tested the Main porphyry zone by drilling 1,938.2 meters (6,359 feet) in nine, B.Q. sized holes. Although thick overburden and broken ground prevented the first three holes from being drilled to their target depth, the recovered core from holes 70-2,3,4 and 5 (916.2 meters; 3,006 feet) averaged approximately 0.12% Cu.

At the SF silver property, follow-up work in 1965 included rock sampling, geological mapping and trenching (Noel, 1980). This work identified a number of barite rich shear and fracture zones within red volcanic conglomerate containing significant silver values, the best which measured 45 meters long by 4.2 meters wide grading 11.04 oz./ton silver (Phendler, 1980). Overall, the extensive trenching program revealed the silver values were erratically distributed over an area 100 meters by 40 meters. As a final test of the zone, Conwest drilled 1,069 ft. in three holes. Low grade values of up to 1.43 oz./ton Ag over 26.8 meters along with higher grade intercepts of 3 to 10 oz./ton Ag over 0.50 to 1.50 meters were obtained but deemed too narrow to be of interest. As a result of the disappointing results the claims were allowed to lapse.

In the late 1960's, the search for porphyry copper deposits in B.C. intensified and exploration activity on the Klastline Plateau increased. Spartan Exploration Ltd. staked the Art mineral occurrence (minfile 104G-071) in 1969 and subsequently drilled two short holes.

Sumitomo Metal Mining Canada Ltd. staked a large area including the Castle mineral occurrence (minfile 104G-076) and ground now covered by the Tuk claim as part of a large copper exploration program in 1970. They completed a soil geochemical survey and then drill tested the targets with five diamond drill holes before dropping the ground.

Immediately west of the QC copper prospect, Silver Standard Mines Ltd. staked the A1 claims in 1970-71 to cover a number of copper occurrences located by prospecting (Seraphim, 1971). Reported exploration work included limited geological mapping and sampling program along with a ground survey to establish the position of their property relative to the Q.C. claims.

In 1971 the Geological Survey of Canada mapped the area (GSC Map 11-1971) and then followed this up with an airborne magnetic survey between 1975 and 1978.

Nuspar Resources Ltd. (formerly Spartan Exploration Ltd.) acquired the Wolf prospect (minfile occurrence 104G-045) in 1974 and carried out some prospecting. A.C. Racicot did some minor trenching on the occurrence (held as the Goat claim) in 1976. Texasgulf Canada Ltd. followed up in 1977 with 17 meters of trenching on the Noodle claims.

As part of it's regional porphyry copper exploration program, TexasGulf acquired the QC property in the mid-1970's and completed a small work program before letting it go in favor of other prospects (Newell, 1978).

In 1980 Teck Exploration staked the Castle claims and carried out a limited program of soil sampling, geological mapping and magnetometer-VLF-EM and self-potential IP geophysical surveys followed by hand trenching. This was followed up in 1987 when Teck, in partnership with Kappa Resource Corp. staked more claims in the Castle area and carried out further soil sampling, self potential IP and ground magnetic geophysical surveys followed by hand trenching. The most favorable targets along the *'Castle Trend'* were drill tested by 1190.2 meters of NQ sized core in eleven holes in 1988.

Also in 1988 the G.S.C. released the results of a regional stream silt-sampling program (National Geochemical Reconnaissance, 1988) that included the Klastline Plateau. The results of this survey, which identified a number of anomalous drainages on the plateau, resulted in a significant number of new claims being staked. These included Teck Corporation staking the Q.C. 1 to Q.C 15 claims in the Quash Creek area (covered the QC porphyry copper target as well as ground to the north and west) and the What and Now claims over anomalous drainages 3.5 km. east of the SF (Horn) silver prospect; Noranda staking the Quash property 1.2 km northeast of the What Now claims and Mr. Kevin Whelan staking the 1270 unit Axe property over most of the remaining Klastline Plateau.

In 1989 Teck carried out a detailed silt geochemical survey on the What Now property and silt and soil geochemical surveys along with prospecting and rock sampling northwest of the copper zone on the Q.C. claims. Follow-up hand trenching resulted in the discovery of four vein systems that yielded values to 1.10 oz/ton Au and 6.8 oz/ton Ag over 2.8 meters at Gordon's showing, about 5.5 km. north-northwest of the porphyry zone (Delaney, 1988). The Q.C and What Now properties were then optioned to Triumph Resources Ltd. in 1990. They conducted silt, contour soil and rock geochemical surveys over the Q.C. porphyry target and re-sampled the vein targets to the northwest before optioning the properties to Dryden Resource Corporation in mid 1990. To satisfy option terms, Dryden carried out silt, soil and rock geochemical sampling and drilled 377.04 meters in two holes within the main zone of the copper target before year-end.

On the Quash property, Noranda conducted a small stream silt, prospecting and rock sampling program in 1989. Follow-up work over a favorable zone was carried out in 1989 and included a soil geochemical survey, geological mapping, 39.25 line km. of ground magnetic and 18.5 line km. of VLF-EM geophysical surveys. The property was optioned to Ascot Resources Ltd. in 1991.

In 1989 the large Axe property was sold to Ascot Resources Ltd. who acquired the claims covering the eastern half of the Klastline plateau and Dryden Resource Corp. who obtained the claims covering the west. At the same time the companies jointly optioned the Horn silver property from Tenajon Resources Corp. then contracted Keewatin Engineering Inc. to conduct a large, silt geochemical survey followed by prospecting and rock sampling over their entire land package as a means of identifying favorable copper-gold porphyry and vein hosted gold-silver targets. In all, approximately 700 silt samples were collected resulting in numerous copper, copper-gold (Figure 3) and gold-silver (Figure 4) target areas requiring further evaluation including Trevor Peak, Wolf - Blow Down, Horn East, Horn and Horn North, Central, South Seester, Seester and Castle –Tuk were identified.

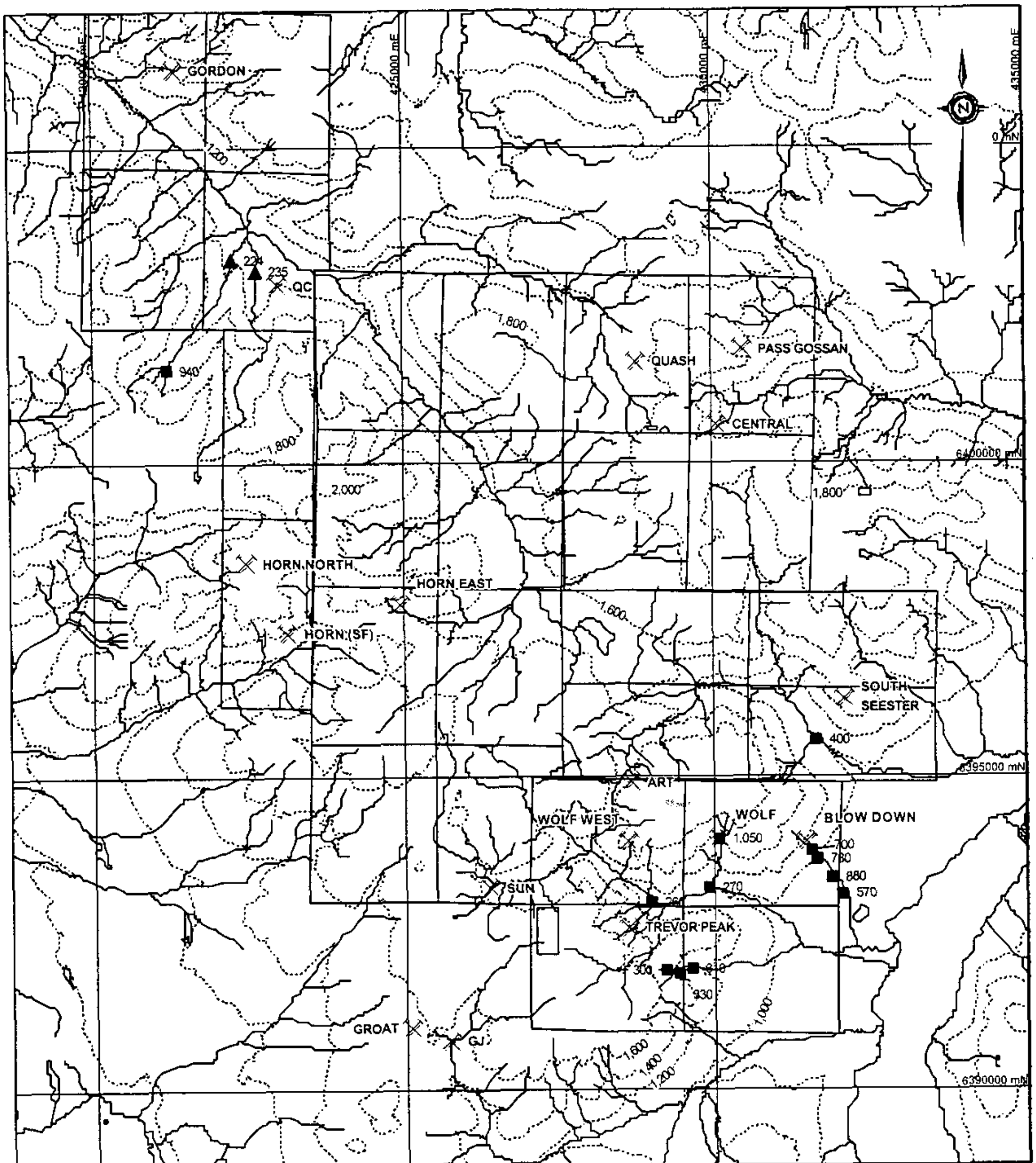
Follow-up work at Trevor Peak in 1990 included prospecting and soil and rock sampling. Highly anomalous gold-silver-copper values over an area at least 500 meters by 600 meters (Olfert, 1991) were discovered and the Flin, Flon and Toon (0.496 oz./ton gold over 0.8 meters) quartz vein showings were identified. In 1991 further prospecting and rock sampling were combined with geological mapping, soil geochemical sampling, a limited, reconnaissance-style induced polarization survey and hand trenching. The Ferro showing (0.524 oz./ton gold over 2.25 meters) was discovered. No work has been carried out since then.

In the Wolf-Blow Down area, a soil survey along with prospecting, geological mapping, rock sampling and 4.8 km of reconnaissance style IP were completed in 1990 and 1991. No work has been carried out since 1991.

At the Horn East a new grid was established in 1990 and further rock sampling was done to follow-up on an 1100 meter long by 75 to 100 meter wide, gold-in-soil anomaly identified by previous operators. In 1991, grid extensions and detailed fill-in soil sampling were carried out. Two trenches were hand dug and sampled in the western half of the anomaly but no testing was carried out in the eastern portion. There has been no exploration work reported since 1991.

At the Horn and Horn North targets, detailed mapping and further soil and rock sampling were carried out in 1990. No work has been carried out since then.

In each of the Central, South Seester, Seester and Castle –Tuk areas prospecting combined with silt, soil and rock sampling were carried out in 1990 and 1991. No work has been reported since then.



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KINASKAN LAKE PROJECT

Cu SILT GEOCHEMISTRY

>= 95% Threshold Values
Cu >= 240 ppm

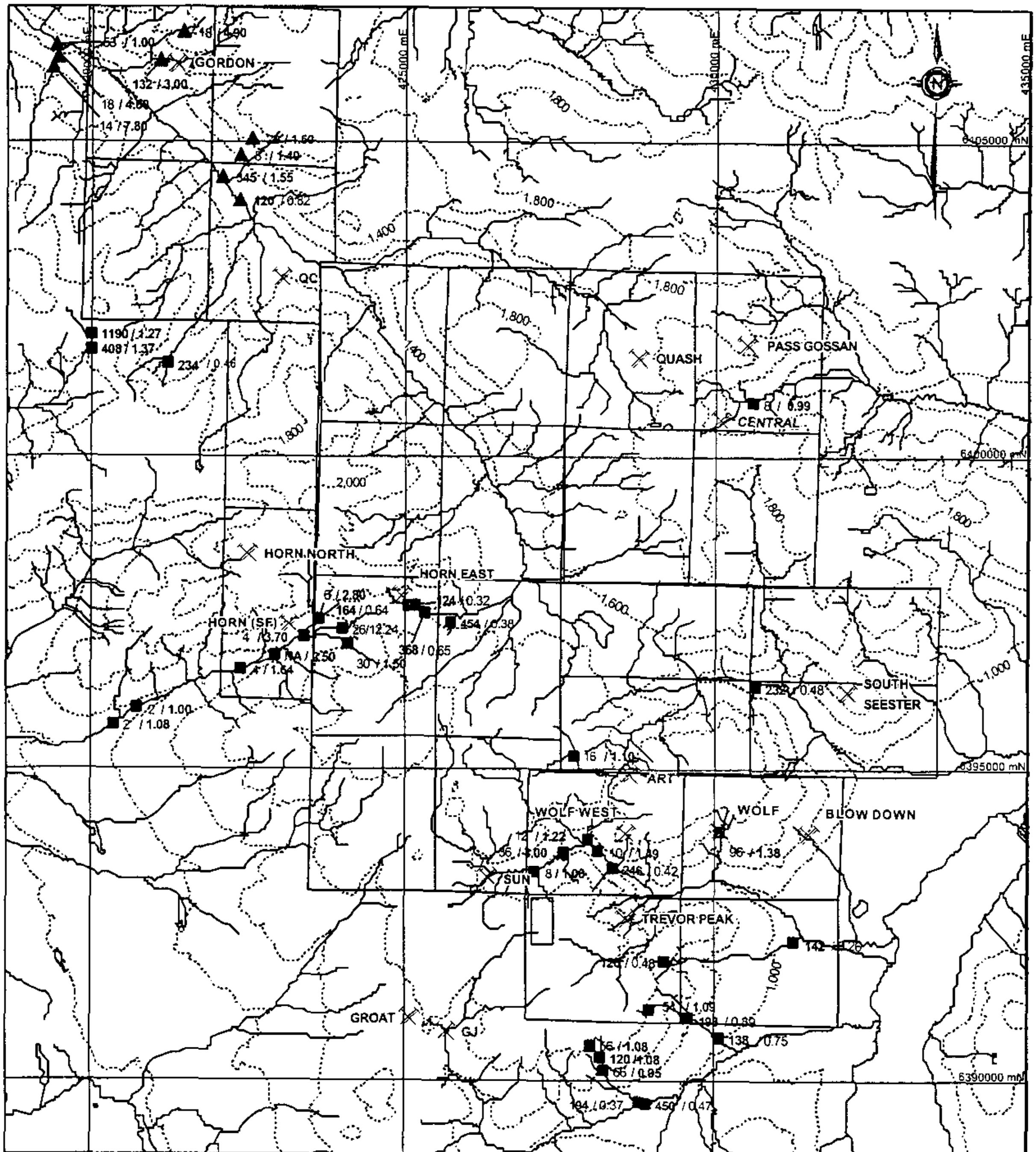
	DATE: JULY 2002	NTS: 104G090
CONTOUR INT= 200m	SCALE: 1:100,000	FIGURE NO: 3

0 500 1000
Meters

SILT SAMPLE Cu (ppm)

- ■ 1989 Keewatin Engineering
- ▲ 1988 Teck Corporation

Information Source:
Assessment reports on the Axe claims for Dryden Resources Corp 1989 and Ascot Res. Ltd. 1990 by D.Mehner



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Au/Ag SILT GEOCHEMISTRY

>= 95% Threshold Values
Au >=120 ppb; Ag >= 0.95 ppm

	DATE: JULY 2002	NTS: 104G090
CONTOUR INT= 200m	SCALE: 1:100,000	FIGURE NO: 4

0 500 1000
Meters

SILT SAMPLE Au (ppb) / Ag (ppm)

- ■ 1989 Keewatin Engineering
- ▲ 1988 Teck Corporation

Information Source:
Assessment reports on the Axe claims for Dryden Resources Corp 1989 and Ascot Res. Ltd. 1990 by D.Mehner

In 1991 Ascot Resources Ltd. optioned the Quash property from Noranda and conducted an induced polarizaion survey (6.9 kilometers), a ground magentics survey (6.9 kilometers) and soil and rock geochemical sampling which was followed by two hand-dug trenches totaling 80 meters. No further assessment work has been filed.

At the QC copper zone, Dryden Resource Corp. continued exploration in 1991 by carrying out more soil, silt and rock sampling, geological mapping and 15.4 line km. of magnetometer and induced polarization surveys. This was followed with 546.8 meters of drill testing in 3 diamond drill holes. There has been no work reported on the target since 1991.

Also in 1991 Dryden carried out further work on the Gordon vein Zone by completing detailed geological mapping and conducting further rock and soil geochemical sampling which was followed by drilling 174.7 meters in two diamond drill holes beneath the Upper Gordon showing. Despite intersecting 19.9 g/t gold and 202 g/t silver over 2.47 meters true thickness in DDH-91-4, no further testing has been reported for this part of the vein system.

In 1992 further prospecting along with rock and soil geochemical sampling were conducted about 400 meters east of the Upper Gordon showing resulting in the discovery of the Oz vein showing (Tupper, 1992). A minimal time was spent partially exposing the vein by five hand dug trenches over a 35 meter strike for assessment credit purposes. No work has been recorded on this target since 1992.

On the What Now property, Jericho Resources Ltd. (formerly Triumph Resources Ltd.) carried out a small soil geochemical survey along the east side of Quash Creek in 1992 to satisfy tenure requirements.

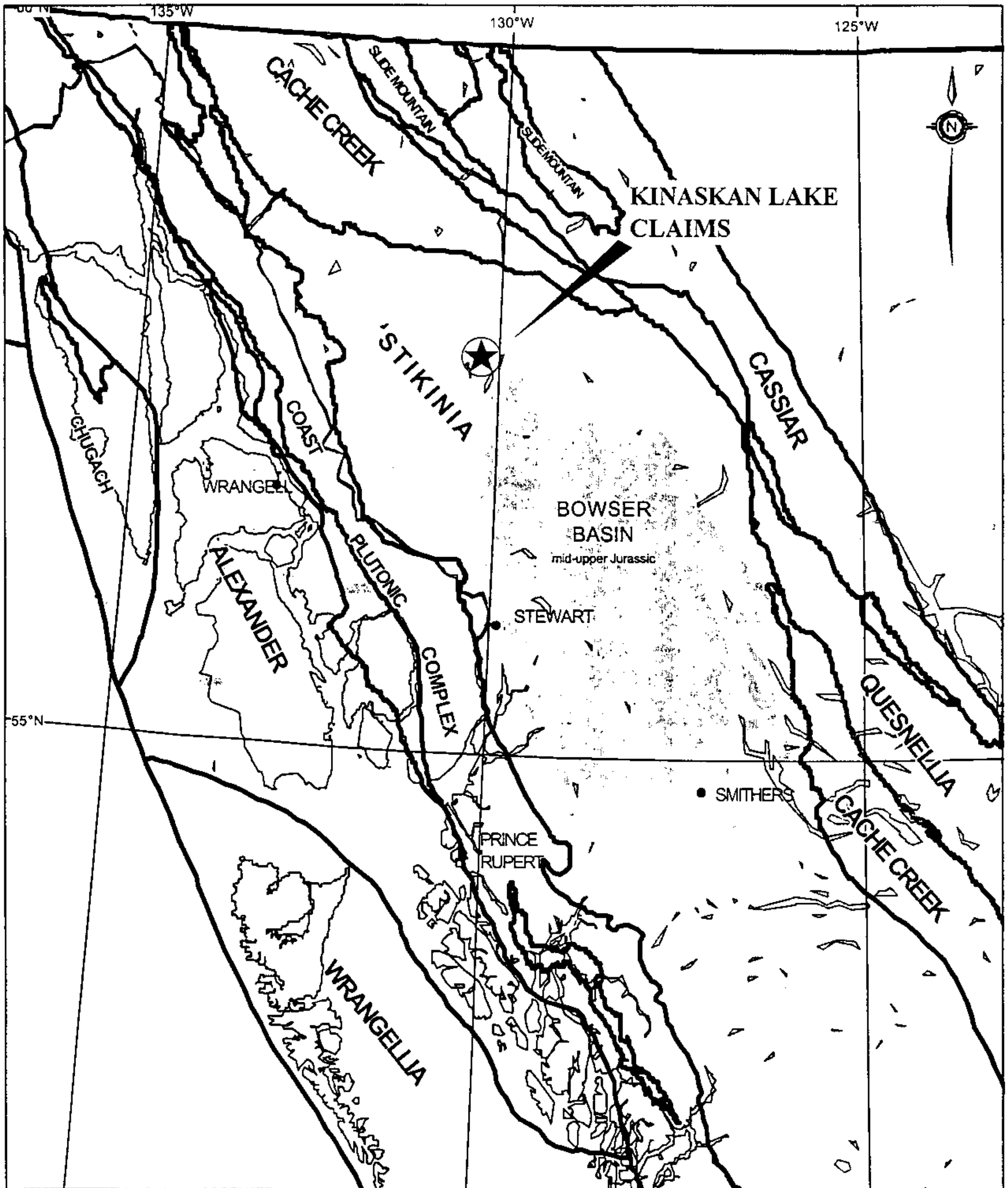
These work programs in 1992 are the last recorded work on the current claims.

VI. REGIONAL GEOLOGY

The Kinaskan Lake property is located in the northeastern part of the Stikine Arch within Stikinia Terrane rocks of of the Canadian Cordillera (Figure 5).

The regional geological setting (Figure 6) as mapped by Souther (1971) of the G.S.C. comprises Upper Triassic Stuhini Group (?) siltstone, chert, greywacke, volcanic conglomerate and minor limestone overlain by Lower to Middle Jurassic rocks that are correlative with the Hazelton Group. These include augite-andesite flows, pillow lavas, pyroclastics and derived volcaniclastic rocks.

Unconformably overlying the above units to the south are chert pebble conglomerate, grit, greywacke and siltstone of the Middle to Upper Jurassic Bowser Lake Group (Evanchik, 1991).



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KINASKAN LAKE PROJECT

TERRANE BOUNDARIES

DATE: JULY 2002	NTS: 104G090
SCALE: 1:5,000,000	FIGURE NO: 5

0 100 200
Kilometres

Source of Information: http://www.em.gov.bc.ca/Mining/Geolsurv/MapPlace

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KINASKAN LAKE PROJECT

REGIONAL GEOLOGY

DATE:	JULY 2002	NTS:	104G090
SCALE:	1:1,000,000	FIGURE NO:	6

LEGEND

- Upper Cretaceous and younger. Mainly basalt flows.
- Jurassic/Cretaceous and younger Intrusives. Mainly Coast Plutonic complex.
- Triassic and Jurassic Intrusive rocks.
- Upper Triassic to Middle Jurassic volcanics and sediments - Hazelton and Stuhini groups.
- Permian and older sediments and volcanics and metamorphic equivalents
- Mine or former producer
- Developed Prospect (Au)

Source of Information: http://www.em.gov.bc.ca/Mining/Geolsurv/MapPlace

Transecting the Upper Triassic to Middle Jurassic assemblage are a distinctive suite of massive, flow-banded and locally spherulitic rhyolite and associated pyroclastics that have been variously interpreted as Lower Jurassic (Read, 1984) to Upper Cretaceous to Lower Tertiary (Souther, 1971) in age.

Capping the stratigraphy at the higher elevations are Upper Tertiary and Pleistocene basalt and olivine basalt flows, commonly exhibiting excellent columnar jointing.

Intrusive rocks in the region are typically fine to medium grained dykes, sills and plutons of Early Jurassic age (Ash et al, 1997) with compositions varying from diorite, granodiorite, monzodiorite, monzonite and syenite. A Uranium-Lead age date of 205.1 plus/minus 8 Ma was determined for the Groat Stock by R.M. Friedman of the University of British Columbia (Ash et al, 1997).

Regionally intrusive rocks all fall within the Stikine Arch structural domain, a regional feature along which Early Jurassic intrusive and related (island arc type) volcanic activity took place. Commonly the alkalic intrusives including those found on or near the Kinaskan Lake property are associated with porphyry copper-gold and/or precious metal vein systems.

VII. REGIONAL MINERALIZATION

The most significant deposits associated with alkalic intrusives in a setting not unlike the Kinaskan Lake property include the Galore Creek and Schaft Creek porphyry deposits and the past producing Snip gold vein deposit (Figure 6). Within the immediate area of the Kinaskan Lake property the most significant areas of mineralization are (Figure 7):

A) The Red-Chris alkalic porphyry copper-gold deposit located 25 km east of the center of the Kinaskan property. Explored in the mid 1970's by Texasgulf Inc. (now Falconbridge Ltd.) and in the mid 1990's by American Bullion Minerals Ltd. In 1998 American Bullion (July 7, 1998 Company News Release) announced the results of a pre-feasibility study which estimated the total resource at 224.5 million tonnes grading 0.419 % copper and 0.330 grams per tonne gold.

B) The GJ copper-gold prospect located on Groat Creek immediately south of the property. Drilling in the 1970's and 1990's returned a number of significant intersections including 0.36 % Cu and 1.2 g/t Au over 76 meters and 0.79 % Cu and 1.7 g/t Au over 68 meters (Mehner, 1991d).

C) The Rok porphyry Cu-Au prospect situated on the southeastern half of Ehahcezetle Mountain, 26 km to the northeast. Discovered by Texasgulf Inc. in 1975, the property was drilled in 1990 by Consolidated Carina Resources Ltd. who intersected 27.87 metres grading 1.765% Cu and 0.066 oz/ton Au in the third hole of a three hole program (Mehner, 1990d).

D) The Spectrum gold vein system located on the east slopes of Mt. Edziza, 11.5 km to the southwest. Recent drill intersections into this precious metal target by Columbia Gold Mines (Northern Miner, October 20, 1990)

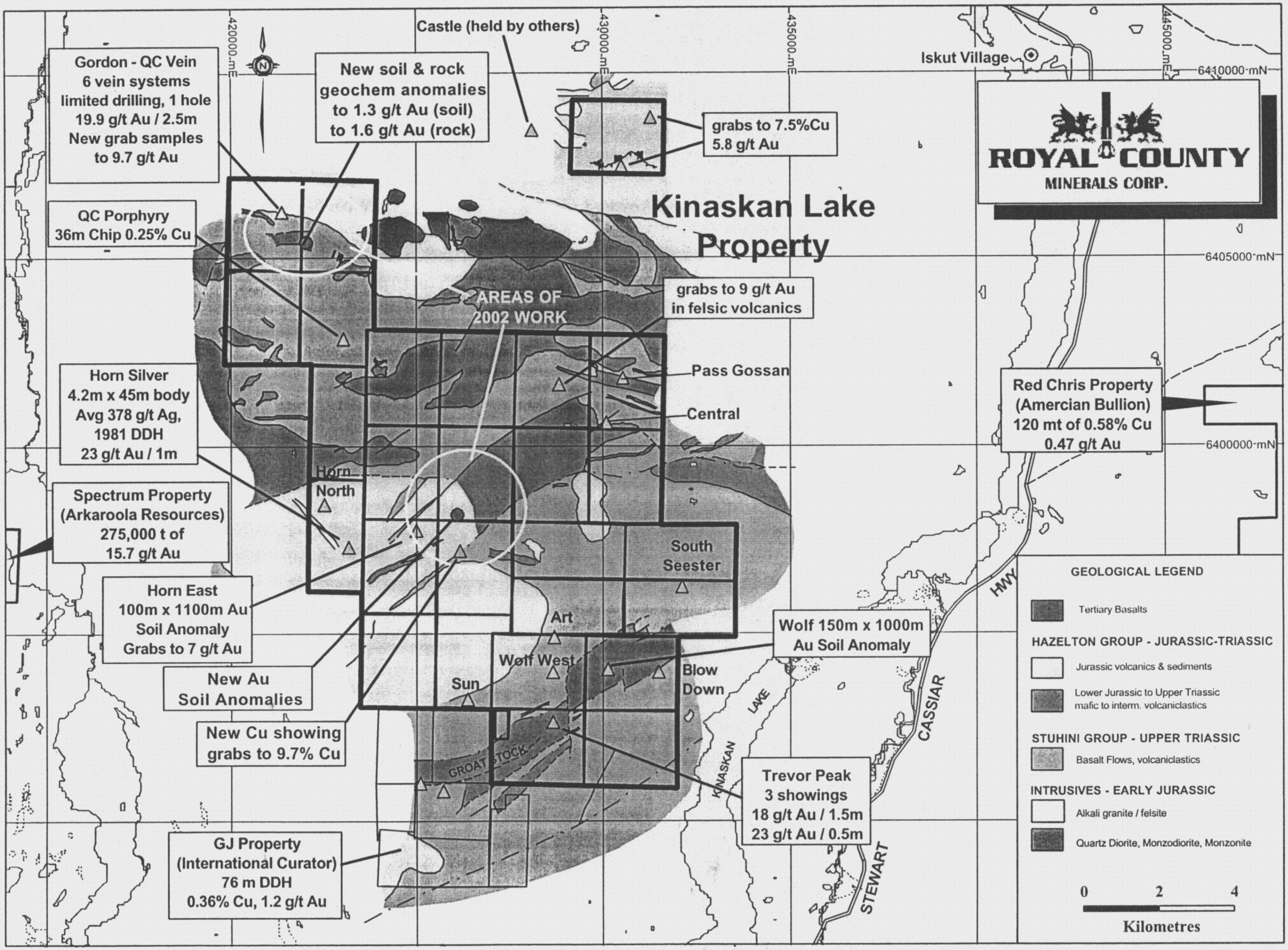


Figure 7 Kinaskan Lake Property Geology and Mineral Occurences

include 33 feet at 0.36 oz/ton Au, 8 feet an 0.60 oz/ton Au and 75 feet at 0.30 oz/ton Au.

E) The Castle gold prospect located 7.5 northeast of the QC porphyry copper-gold prospect. Work to date by Teck Corp. and Triumph Resources Ltd. has identified a sulphide system 7 km long by up to 250 meters wide that contains visible gold and has yielded assays to 4.0 oz/ton Au from grabs and 0.93 oz/ton Au from one meter chips (Brock, 1990).

F) The Horn (SF) silver prospect located 5.0 km south of the Q.C. porphyry prospect. Discovered by Conwest Exploration in 1964, a vein system has returned values of 11.04 oz/ton Ag over an area of 45 meters x 4.2 meters (Phendler, 1980).

VIII. PROPERTY GEOLOGY

The southeastern third and most of the northwestern portion of the property have been mapped as argillites, chert, cherty siltstones, quartzite, greywacke, grit polymictic conglomerate and minor limestone interbedded with andesitic tuff of the Upper Triassic Stuhini Group (see Figure 7). Over the Tuk claim and in the southwestern part of the property, Lower Jurassic, Hazelton Group rocks consist of andesitic and felsic volcanics and volcaniclastics overlying (?) a sequence of greywacke, siltstone and argillite. Locally some of the argillites are calcareous.

In the central part of the claim group a mixed assemblage of volcaniclastic rocks is interpreted as being composed of both Upper Jurassic and Lower Jurassic lithologies.

Throughout the property a number of dike or sill-like intrusive bodies varying in composition from medium grained hornblende diorite and granodiorite to finer grained monzodiorite and monzonite have been mapped as Early Jurassic. Often these intrusives are associated with peripheral sulphide bearing quartz veins containing significantly anomalous gold and silver values. In the northwestern part of the property, porphyry copper-gold mineralization is associated with the same type of intrusions.

In the central part of the property, an elliptical plug of rusty weathering felsite cuts the Stuhini Group rocks. The plug varies from massive, cream coloured, aphantitic felsite to flow banded rhyolite with locally developed orbicular texture. Finely disseminated pyrite is common throughout.

In the northern part of the property but largely east of the main claim block, Upper Tertiary and Pleistocene basalt and olivine basalt flows unconformably cap the Triassic to Jurassic stratigraphy.

Alteration over much of the property is restricted to local chlorite replacement of mafics and epidote and calcite fracture filling related to minor faulting or intrusive contacts.

In the vicinity of the QC prospect, alteration becomes significantly more intense. Volcanics adjacent to the diorite intrusions have been thermally metamorphosed to hornfels and an east-west propylitic alteration zone measuring at least 4 km long by 0.80 km wide has been developed around the intrusive bodies. Alteration intensity including the presence of weak quartz veining, minor clay replacement of feldspars and minor secondary potassium feldspar flooding increases with proximity to the diorite intrusive contact.

IX. STRUCTURAL GEOLOGY

Megascopic folding of the greywacke-siltstone-argillite sequence is readily observable in the Quash Creek valley. Folds are both tight and open with magnitudes measurable in meters to tens of meters. Folding is not readily apparent in volcanic rocks.

Lineaments with variable orientations are apparent on aerial photographs and topographic maps of the property. In the southern part of the property the most pronounced lineaments are northeast trending parallel to the orientation of the Groat Stock. In the central part of the property including the Horn East area, lineaments are both northeast (paralleling another intrusive body) and east.

In the Quash Creek area in the northwestern part of the claim group, the most pronounced lineament is northwest trending. Although it may reflect a fault, there is no obvious offset of lithologies on either side of the creek. A second lineament direction defined by the QC intrusions and associated colour anomaly/hydrothermal system of the QC prospect is northeast trending.

X. PROPERTY MINERALIZATION

The Klastline Plateau is host to four principal styles of mineralization. They include:

- vein style gold-silver-copper- zinc generally peripheral to Early Jurassic stocks
- porphyry style copper-gold associated with Early Jurassic intrusives
- volcanogenic zinc-lead-gold-silver associated with felsic volcanics of probable Jurassic age
- barite rich shear and stockwork zones associated with Early Jurassic felsite containing galena, sphalerite, chalcopyrite, tetrahedrite and occasional flakes of native silver

On the Kinaskan Lake property the principal targets are gold-silver-copper-zinc bearing quartz veins that tend to be best developed peripheral to Early Jurassic quartz diorite, monzodiorite and monzonite stocks along Quash Creek in the northwest and around the Groat Stock in the southeast (see Figure 7).

The geological setting of these veins is similar to those at the now closed Snip Mine approximately 130 km. south-southeast of the property (see Figure 6). At Snip gold-rich, On the Kinaskan Lake property the principal targets are gold-silver-copper-zinc bearing quartz veins that tend to be best developed peripheral to Early Jurassic quartz diorite, monzodiorite and monzonite stocks along Quash Creek in the northwest and around the Groat Stock in the southeast (see Figure 7).

The geological setting of these veins is similar to those at the now closed Snip Mine approximately 130 km. south-southeast of the property (see Figure 6). At Snip gold-rich, sulphide bearing quartz veins/shear veins occur peripheral to the Early Jurassic, "Red Bluff" quartz diorite to monzodiorite stock. Intruding Triassic sedimentary rocks, the Snip deposit had published reserves and production of greater than 35 tonnes gold in 1995 (Rhys, 1995). Exploration work on gold bearing quartz veins on the Kinaskan Lake property are modeled after deposits like the Snip Mine.

A secondary exploration target on the property worthy of future follow-up is the porphyry copper-gold potential. This deposit type is prevalent in a "regional" sense (discussed above) and with known mineralization of this type (Red Chris deposit; G.J and Rok prospects) in intrusives of similar age and composition locally, the potential to discover something similar, particularly in the northwest around the QC is reasonable

Exploration techniques that have proven very effective in outlining anomalous areas for both the vein and porphyry style mineralization in the past include silt and soil geochemical surveys. Prospecting combined with rock sampling and hand trenching have been effective methods in defining vein targets while induced polarization geophysical surveys have been effective in defining sulphide systems hosting copper-gold mineralization. Diamond drilling using light-weight, mobile machines capable of quick moves with a Bell 206 or Hughs 500 helicopter and drilling with thin walled BQ rods that provides a core very similar in size to NQ has been the most effective method of subsurface testing targets.

A significant amount of historic work has resulted in identification of at least six general anomalous areas containing significant gold values in vein material from rock chip, grab or float samples. The current Minfile indicates at least 17 occurrences on the claims numbered 104G 33, 35, 45, 71, 87, 160, 161, 166, 167, 170, 171, 172, 173, 176, 177 and 104G 159 and 162 on the Tuk claim. Follow-up exploration work on each of these targets has been minimal and largely confined to some soil and rock sampling, sporadic hand trenching, a couple of reconnaissance induced polarization geophysical survey lines on one target and two diamond drill holes on another target. Due to the limited amount of work each of the targets remain poorly understood. However, the coincidence of highly anomalous silt, soil and rock geochemical results combined with favorable geology has allowed the selection of a number of targets warranting further work including soil and rock sampling, trenching and drilling. Following is a description of selected targets identified as having significant potential. The descriptions are summarized from assessment reports and government minfile descriptions available on the Map Place (http://www.em.gov.bc.ca/Mining/Geolsurv?MapPlace).

Gordon Vein Area

The Gordon Vein zone consists of at least five sub-parallel gold and silver bearing quartz ± pyrite ± carbonate ± arsenopyrite ± sphalerite ± chalcopyrite ± barite vein systems situated on the east side of Quash Creek approximately 4.2 km northwest of the QC porphyry copper-gold prospect (Figure 8).

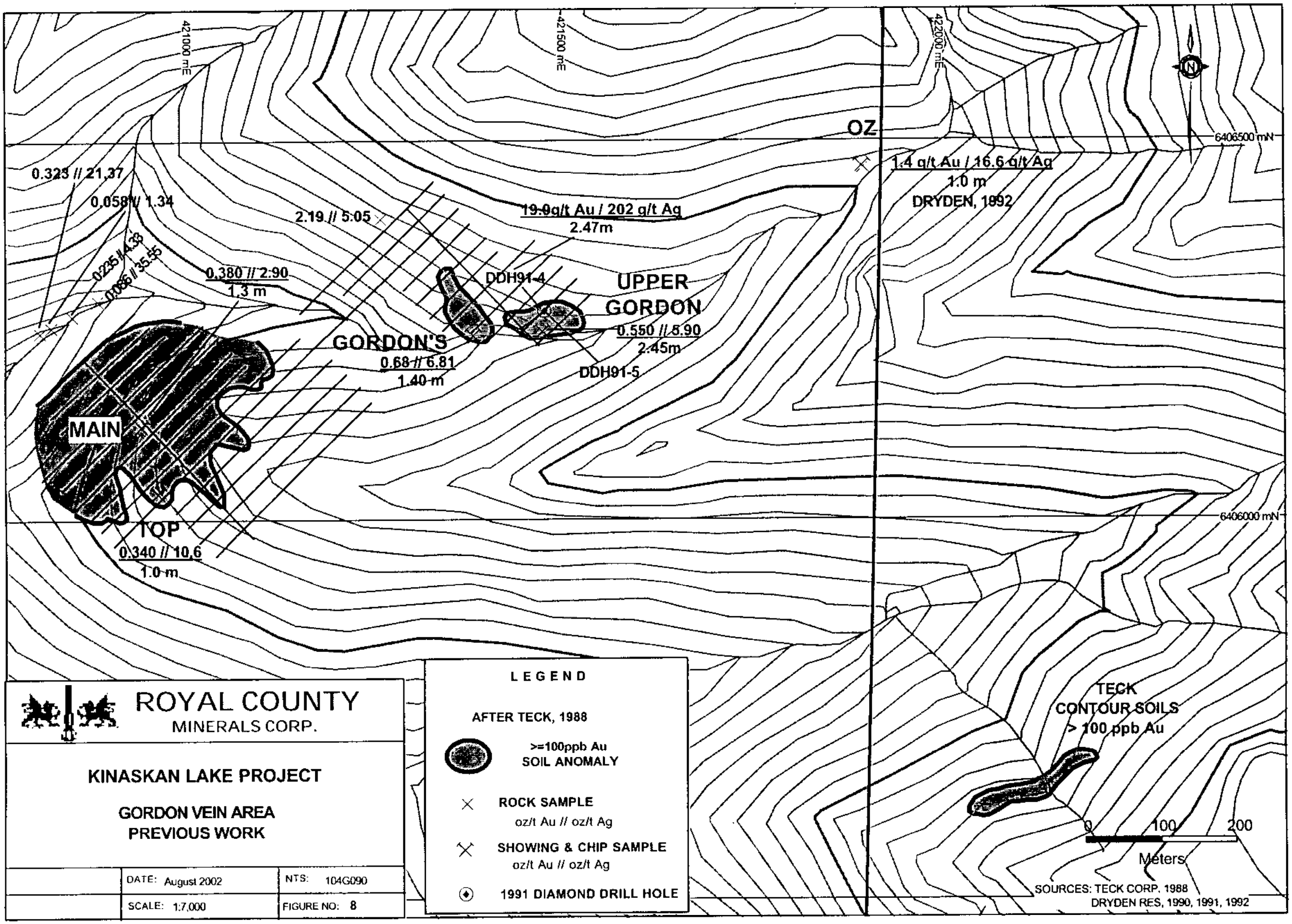
Regional mapping by Ash et al (1997) shows the vein system is underlain by both Upper Triassic Stuhini Group sediments and Lower Jurassic Hazelton Group andesitic breccias and conglomerates intruded by an east-trending, elongate Early Jurassic intrusive body, varying from hornblende quartz diorite to monzodiorite and monzonite (Figure 7).

The Gordon zone was initially discovered in 1988 by Teck Exploration while conducting follow-up exploration work on a number of anomalous drainages identified on map sheet 104G in a regional reconnaissance geochemical sampling program carried out by the Geological Survey of Canada (1988). As a result of prospecting, the Main, Top, Gordons' and Upper Gordon showings were discovered over a 560 meter long zone within a small east-west orientated creek valley. Limited soil sampling over two small grids yielded open-ended gold in soil anomalies >100 ppb coincident with each of the vein occurrences (Figure 8). Minimal rock sampling yielded numerous highly anomalous gold and silver values (Delaney, 1988) with some of the more significant results listed in the following Table 2.

Table 2: Significant Rock Sample Results From the Gordon Vein Area by Teck, 1988

Location	Sample Type	Width (meters)	Au Oz / ton	Ag Oz / ton
Main Zone/ C-grid	Chip	1.31	0.380	2.90
Top / C-grid	Chip	1.00	0.340	10.60
orth of Main Zone	Grab		0.323	21.37
orth of Main Zone	grab		0.058	1.34
orth of Main Zone	grab		0.235	4.33
orth of Main Zone	grab		0.086	35.55
orth of Main Zone	grab		2.190	5.05
Gordons'/ D-grid	chip	1.40	0.680	6.81

In 1990, Triumph Resources optioned the property from Teck and carried out hand trenching to better expose the vein showings for geological mapping and rock sampling (Konkin, 1990). Check sampling of the Main and Gordon's-Upper Gordon showings confirmed the earlier results by Teck while trenching on the "D" grid exposed the


421000 mE
421500 mE
422000 mE
6406500 mN
6406000 mN
OZ
1.4 g/t Au / 16.6 g/t Ag
1.0 m
DRYDEN, 1992
0.323 // 21.37
0.058 // 1.34
2.19 // 5.05
19.0g/t Au / 202 g/t Ag
2.47m
0.225 // 4.33
0.066 // 35.55
0.380 // 2.90
1.3 m
DDH91-4
UPPER
GORDON
0.550 // 5.90
2.45m
GORDON'S
0.68 // 6.81
1.40 m
DDH91-5
MAIN
TOP
0.340 // 10.6
1.0 m
TECK
CONTOUR SOILS
> 100 ppb Au
0
100
200
Meters
SOURCES: TECK CORP. 1988
DRYDEN RES, 1990, 1991, 1992
LEGEND
AFTER TECK, 1988
>=100ppb Au
SOIL ANOMALY
ROCK SAMPLE
oz/t Au // oz/t Ag
SHOWING & CHIP SAMPLE
oz/t Au // oz/t Ag
1991 DIAMOND DRILL HOLE
ROYAL COUNTY
MINERALS CORP.
KINASKAN LAKE PROJECT
GORDON VEIN AREA
PREVIOUS WORK
DATE: August 2002
NTS: 104G090
SCALE: 1:7,000
FIGURE NO: 8

48012	Main vein	0.8	0.240
48022	Main vein	grab	0.254
49054	Gordon's-Upper Gordon	1.0	2.917
48055	Gordon's-Upper Gordon	1.0	0.386
48056	Gordon's-Upper Gordon	1.0	1.210
48057	Gordon's-Upper Gordon	1.0	0.380

In late 1990, Dryden Resource Corp. optioned the Quash Creek property from Triumph Resources and in 1991undertook a program of geological mapping, hand trenching and rock sampling of the Upper Gordon vein. This was followed by 174.7 meters of diamond drilling in two holes.

The resulting trenches exposed a number of mineralized veins constituting the Upper Gordon vein system along a 75 meter strike at trends of between 110° - 140° with dips of 40°- 80° to the northeast. Host rocks of lapilli tuff, tuff, wacke and siltstone were noted to have variable degrees of iron carbonate alteration overprinting (Morrice, 1991).

Hand trenching and rock sampling by Dryden Resources in 1991 established vein widths of up to 3 meters with highly anomalous gold and silver values. Some of the more significant results are noted in the following Table 4.

Table 4: Significant Rock Sample Results From the Upper Gordon Vein by Dryden Res., 1991

Sample No.	Sample Type	Width (meters)	Au g/t	Ag g/t	Cu %	Zn %
87-1889	Trench chip	1.0	17.0	166.3	0.64	1.99
1886	Trench chip	0.6	57.8	192.2	2.72	15.65
80-1883	Trench chip	3.0	8.2	84.9	0.35	0.63
1938	grab		62.0	178.9	0.09	0.10
1830	Trench chip	0.08	23.2	90.5	0.22	36.70
1839	Trench chip	1.0	89.5	194.8	0.44	0.60

Diamond drilling (NQ sized drill core; core cut with a rock saw for sampling) yielded significant gold and silver values over 3.5 meters (estimated to be 2.47 meters true thickness by Morrice,1991) in hole 91-4 but only a very narrow intersection in hole 91-5. The best drill intersections are:

Table 5: Significant Drill Intersections from the Upper Gordon Vein by Dryden Res., 1991

Hole No.	From To (meters)	Width meters)	Au g/t	Ag g/t	Cu %	Zn %
91-4	41.27 – 44.77	3.5	19.9	202.3	3.08	5.31
91-5	37.15 – 37.65	0.5	9.9	79.6	0.81	3.53

In 1992, as part of a very limited exploration program, Dryden Res. discovered the Oz vein showing approximately 400 meters east of the Upper Gordon showing (Tupper, 1992). Hand trenching in 5 locations traced the vein at least 33 meters over widths to 1.0 meters. The most significant results are noted in the following table.

Table 6: Significant Rock Sample Results From the Oz Vein by Dryden Res., 1992

Sample No.	Sample Type	Width (meters)	Au ppb	Ag g/t	Cu ppm	Zn ppm
A-C017	Chip-trench 2	0.4	4480	82.40	1350	164,000
A-C021	Chip-trench 3	0.5	830	5.00	710	18,900
D-C015	Chip-trench 1	1.0	1372	16.60	1040	29,000
D-C018	Chip-trench 1	0.4	2800	13.20	970	38,000

Since 1992, the only reported work in the area was in 1996 when two small gold-bearing showings (A3 and A4) were located at or near the Gordon vein system and sampled by members of the B.C. Geological Survey Branch during a mapping program (Fieldwork 1996, page 283).

The A3 showing is described as a 3-metre wide malachite/azurite stained gossanous zone hosting pyrite and chalcopyrite. A sample assayed 0.56 per cent copper, 0.74 per cent zinc, 15.2 grams per tonne silver and 1.7 grams per tonne gold (Open File 1997-3, Table 1). The A4 showing is a 1-metre wide intensely ankerite-altered zone hosted in a dark green plagioclase porphyry intrusion. A sample from this zone yielded 4.8 per cent zinc, 0.12 per cent lead, 0.03 per cent copper, 1.7 per cent barium, 16.7 grams per tonne silver and 2.0 grams per tonne gold (Open File 1997-3, Table 1)

The combination of gold soil anomalies and significant gold and silver values from widespread rock grab and trench samples combined with a very significant gold-silver mineralized interval in drill hole 91-4 indicate the Gordon Vein area is a target of merit that warrants further exploration not only on the Upper Gordon vein but on the newly discovered Oz vein.

QC Porphyry Area

The QC porphyry area is situated in the northwest corner of the Kinaskan Lake property about 20 km. southwest of Iskut village (Figure 7). There are two separate targets occurring within the area:

a) a copper-gold porphyry prospect
b) gold-bearing veins

Copper-gold prospect: By far the most heavily explored of the two has been the porphyry copper-gold target where disseminated and veinlet pyrite (10%) with minor pyrrhotite (6%) and disseminated and fracture controlled chalcopyrite occur in an altered and strongly fractured andesite-diorite sequence.

The first recorded work on the prospect took place in 1965 when Conwest Exploration Company Limited carried out a geophysical survey (IP and magnetometer) and then followed that up in 1969 with additional ground magnetometer and geochemical surveys. The property was subsequently optioned to Amoco Canada Petroleum Company Limited in 1970 and a 1,300 metre by 400 metre area in the far eastern (Main Grid; Figure 9) end of the mineralized zone was tested by 1949 metres in nine, widely spaced B.Q. diamond drill holes (Webb, 1970). Three of the drill holes were abandoned due to bad ground conditions while a fourth was lost in overburden. The significant intersections are shown in following Table 7.

Table 7: Significant Drill Intersections in the QC Copper-Gold Porphyry Zone, Amoco, 1970

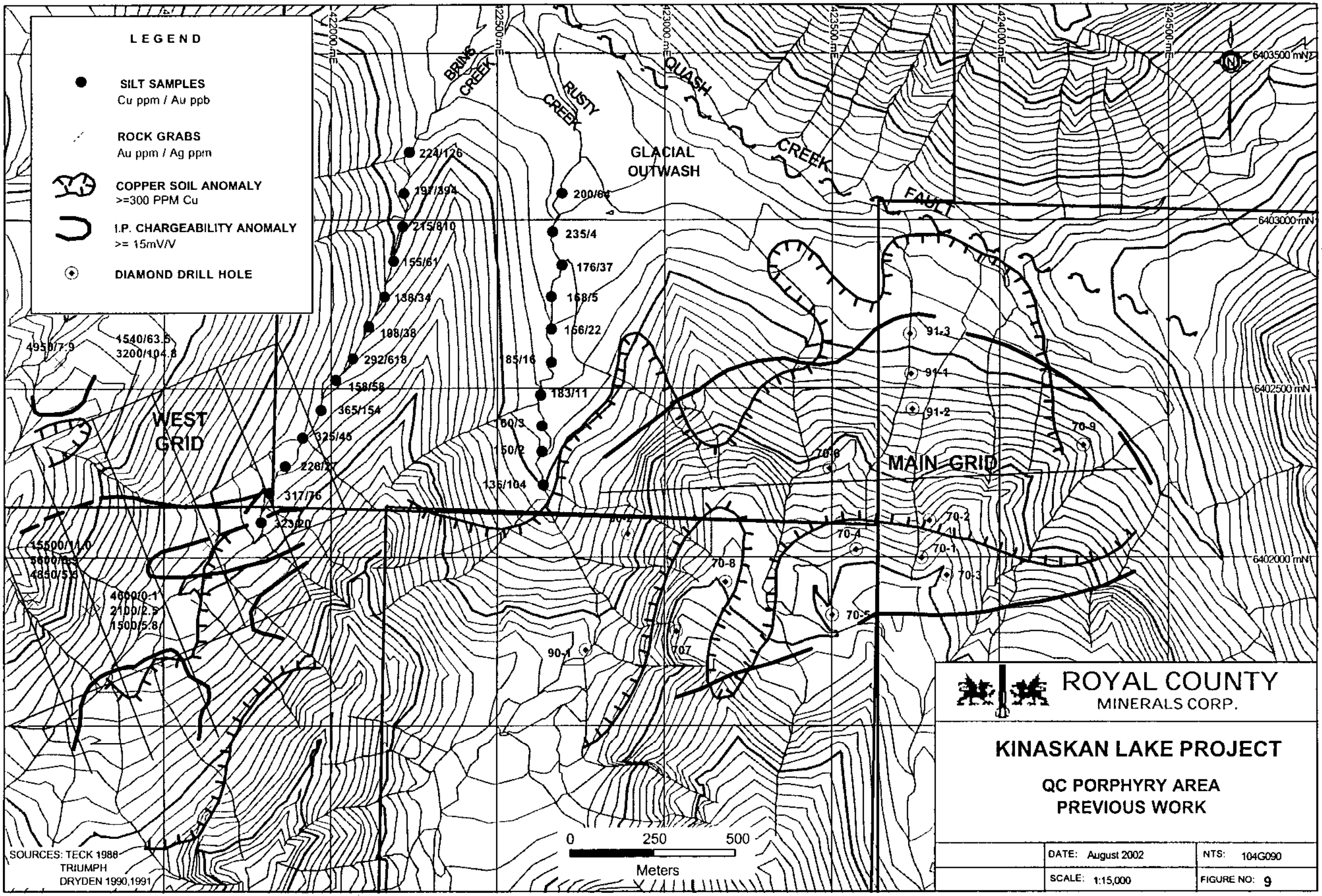
Drill Hole	Hole Length (meters)	Significant Interval	Cu %	Cu oxide %	Au oz / ton	Ag oz / ton
70-2**	163.07	14.94-163.07 incl: 111.25-163.07	0.13 0.16	n/a 0.09	Tr.	Tr n/a
70-3**	181.36	34.14-173.74	0.07	n/a	tr	tr
70-4	355.09	32.31-355.09	0.13	n/a	tr	tr
70-5	304.80	3.96-304.80 incl: 268.22-304.80	0.12 0.19	n/a n/a	Tr tr	Tr 0.10

** holes abandoned due to bad ground conditions

Despite obtaining encouraging results from only a small portion of the overall QC colour anomaly, Amoco dropped its option and the ground remained relatively untested aside from a couple of small rock sampling programs by Texas Gulf Inc. in 1977 and another by Teck Exploration Ltd. in 1980.

Later in 1990, Triumph Resources Ltd. optioned the QC claims from Teck and conducted rock and soil sampling surveys over the Main Porphyry zone to evaluate the copper-gold potential. Results from silts, soils, talus fines and rock samples, particularly to the west and north of Amoco drill holes 70-1 to 70-5 were highly anomalous in both copper and gold (Brock, 1990; Konkin, 1990). Significant results include copper and gold values to 1,300 ppm Cu and 700 ppb Au from a 550 meter by 250 meter soil grid established along the ridge top and average values of 1894 ppm copper and 271 ppb gold for talus fines taken over an 850 meter interval along a contour line on a north slope and 1999 ppm copper and 327 ppb gold over a 1250 meter interval of a contour line along a west facing slope.

In the fall of 1990, the property was optioned to Dryden Resource Corp. who carried out a limited amount of rock and soil sampling before drilling 377 meters of NQ core in two


LEGEND
SILT SAMPLES
Cu ppm / Au ppb
ROCK GRABS
Au ppm / Ag ppm
COPPER SOIL ANOMALY
>=300 PPM Cu
I.P. CHARGEABILITY ANOMALY
>= 15mV/V
DIAMOND DRILL HOLE
422000 mE
422500 mE
423000 mE
423500 mE
424000 mE
424500 mE
6403500 mN
6403000 mN
6402500 mN
6402000 mN
BRING CREEK
RUSTY CREEK
QUASH CREEK
GLACIAL OUTWASH
FAULT
WEST GRID
MAIN GRID
224/126
215/810
155/61
138/34
108/38
292/618
158/58
365/154
325/45
317/76
323/20
200/64
235/4
176/37
168/5
156/22
185/16
183/11
150/2
135/104
4950/7.9
1540/63.5
3200/104.8
15500/11.0
4850/5.8
4600/0.1
2100/2.5
1500/5.8
91-3
91-1
91-2
70-9
70-6
70-2
70-4
70-1
70-3
70-8
70-5
707
90-1
0 250 500
Meters
SOURCES: TECK 1988
TRIUMPH
DRYDEN 1990,1991
ROYAL COUNTY
MINERALS CORP.
KINASKAN LAKE PROJECT
QC PORPHYRY AREA
PREVIOUS WORK
DATE: August 2002
NTS: 104G090
SCALE: 1:15,000
FIGURE NO: 9

holes along the west side of the Main copper zone. Significant results are provided in the following Table 8.

Table 8: Significant Drill Intersections in the QC Copper-Gold Porphyry Zone, Dryden Res. 1990

Drill Hole No.	Mineralized Interval From - To	Length (meters)	Cu ppm	Au ppb
90-Q01	3.00 – 90.00	87.00	1,067	21
	159.00 - 171.00	12.00	1,162	912
90-Q02	36.00 – 52.50	16.50	1,168	16
	60.00 – 72.00	12.00	1,435	140
	123.00 – 124.50	1.50	1,931	1,750

In 1991, Dryden Resources undertook a comprehensive exploration program on the property including grid establishment, geological mapping, soil sampling, prospecting and induced polarization and magnetometer geophysical surveys. Much of the work concentrated on the Main zone (Figure 9) where an 1850 meter east-west by 275 to 825 meter north-south > 300 ppm copper soil anomaly was defined and found to be largely coincident with a 1480 meter by 800 meter I.P. chargeability anomaly (Morrice, 1991). The anomalies were then tested by 546.8 meters of NQ sized core in 3 holes drilled along a fence north of Amoco hole 70-2. The significant results are noted in the following table_.

Table 9: Significant Drill Intersections in the QC Copper-Gold Porphyry Zone, Dryden Res., 1991

Hole No.	From – To	Meters	% Cu
91-1	8.6 – 77.6	69	0.276
91-2	6.0 – 69.0	63	0.190
91-3	75.0 – 147.0	72	0.140

Gold bearing veins: As part of the 1991 work, Dryden also carried out IP and soil geochemical surveys on ground along strike to the west of the Main copper zone. Again, an open ended 770 meter by 300 meter, > 300 ppm copper soil anomaly was found to be partially coincident with an 830 meter long by 520 meter wide IP chargeability anomaly (Figure 9.2.2). Silt sampling of Bruns Creek which drains the area yielded anomalous values of up to 365 ppm copper and 810 ppb gold (Konkin, 1990) while nine rock grab samples taken from sulphide bearing quartz veins yielded values as high as 15,500 ppb gold and 104.8 ppm silver along with elevated copper and zinc values. The most significant results are provided below in Table 10.

Table 10: Significant Rock Sample Results From the QC West Zone, Dryden Res., 1991

Sample No.	Au ppb	Ag ppm	Cu ppm	Zn ppm
91-RVR-1947	3200	104.8	385	17,666

91-RVR-1948	1540	63.5	858	16,716
91-DCR-2044	5600	6.9	407	1065
91-DCR-2045	4850	5.5	201	185
91-DCR-2078	4950	7.9	1581	61,242
91-SCR-2213	15500	11.0	1690	129
91-SCR-2236	4600	0.1	386	1456
91-MM-1820	1500	5.8	372	1840
91-MM-1821	2100	2.5	162	146

The combination of coincident soil geochemical and IP chargeability anomalies with strongly anomalous gold and copper values in stream silts and rock grabs provide a potential gold bearing vein target that warrant further prospecting, trenching and sampling.

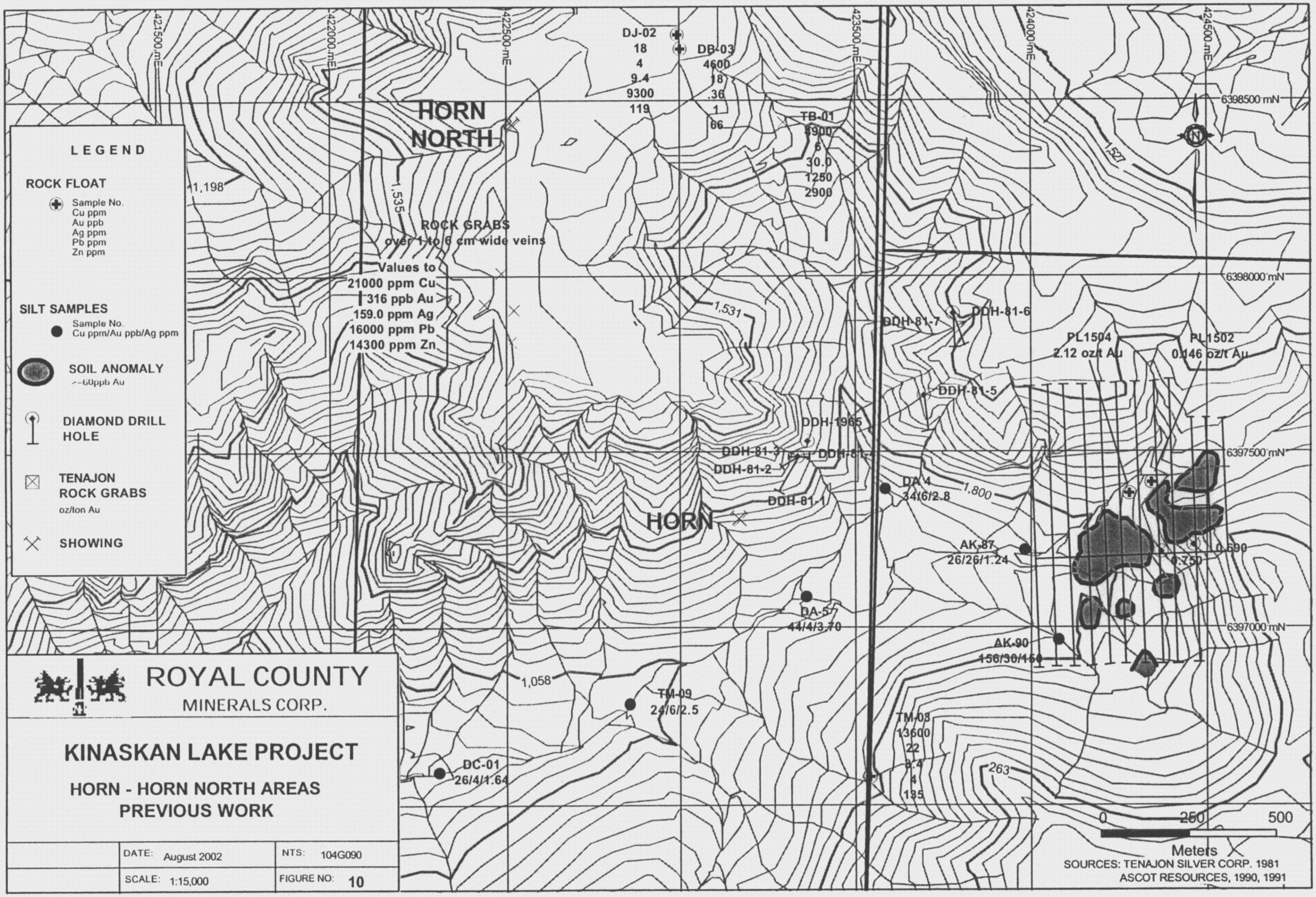
Horn East – What Now Area

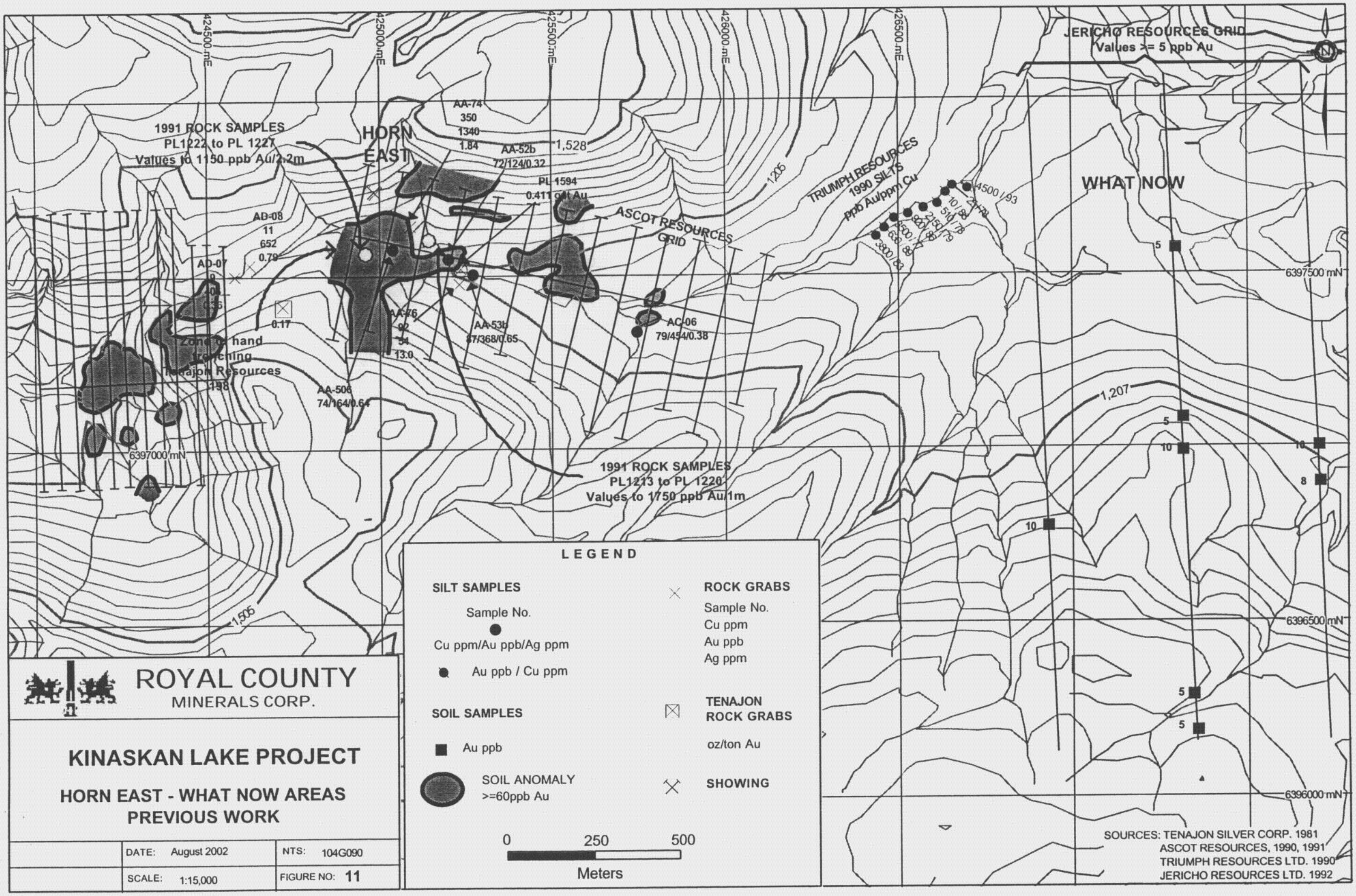
The Horn East occurrence is located about 24 kilometres southwest of the town of Iskut (Figure 7). The area is underlain by Lower Jurassic Hazelton Group andesitic volcaniclastic rocks including medium to coarse-grained crystal lithic wacke and siltstones intruded by east-northeast trending narrow Early Jurassic dikes and sills of dioritic composition (see Figure 7).

The area of interest was originally staked as part of the SF (Horn) silver prospect to the west. In 1980, Tenajon Resources Corp. acquired the property and completed soil and rock geochemical surveys that extended the zone of known mineralization at least 300 meters to the east (see Figure 10). Gold values in soils ranged up to 990 ppb (Noel, 1980) and for the first time the eastern part of the area was recognized as a potential gold target. Prospecting and rock sampling followed and values up to 1,460 ppb gold were obtained in grab samples. A program of hand trenching followed in 1981 and although grab samples as high 0.750 oz / ton gold were obtained no further work was carried out.

In 1989 the Horn East area was acquired by Ascot Resources through its' purchase of the Axe mineral claims. A new grid was established east of Tenajon's 1980 work prospecting and soil sampling were carried out. The results, when combined with those of Tenajon indicate a > 60 ppb gold soil anomaly can be identified over an east-west strike length of about 1.5 kilometres with an average width of 75 to 100 metres (Figures 10 & 11). The area of interest is covered by soil and rubble with some outcroppings at either end.

In 1990 Ascot carried out a small program including in-fill soil sampling, prospecting and rock sampling, geological mapping and hand excavated a small trench. The mapping, albeit of minimal outcrop suggests gold mineralization is associated with structurally controlled sulphide (pyrite) bearing quartz-iron-carbonate veins that may be related to northeast trending diorite dikes (Olfert, 1991). Rock sampling again of minimal float


ROYAL COUNTY
MINERALS CORP.
KINASKAN LAKE PROJECT
HORN - HORN NORTH AREAS
PREVIOUS WORK
DATE: August 2002
NTS: 104G090
SCALE: 1:15,000
FIGURE NO: 10
LEGEND
ROCK FLOAT
Sample No.
Cu ppm
Au ppb
Ag ppm
Pb ppm
Zn ppm
SILT SAMPLES
Sample No.
Cu ppm/Au ppb/Ag ppm
SOIL ANOMALY
DIAMOND DRILL HOLE
TENAJON ROCK GRABS
oz/ton Au
SHOWING
HORN NORTH
HORN
ROCK GRABS
over 1 to 6 cm wide veins
Values to
21000 ppm Cu
316 ppb Au
159.0 ppm Ag
16000 ppm Pb
14300 ppm Zn
DJ-02
18
4
9.4
9300
119
DB-03
4600
18
.36
1
66
TB-01
4900
6
30.0
1250
2900
DDH-81-7
DDH-81-6
DDH-81-5
DDH-1965
DDH-81-3
DDH-81-4
DDH-81-2
DDH-81-1
PL1504
2.12 oz/t Au
PL1502
0.146 oz/t Au
DA-4
34/6/2.8
AK-87
26/26/1.24
DA-5
44/4/3.70
AK-90
156/30/160
TM-09
24/6/2.5
TM-03
13600
22
3.4
4
135
DC-01
26/4/1.64
0.750
0.690
421500 mE
422000 mE
422500 mE
423500 mE
424000 mE
424500 mE
6398500 mN
6398000 mN
6397500 mN
6397000 mN
1,198
1,535
1,531
1,527
1,800
1,058
263
0
250
500
Meters
SOURCES: TENAJON SILVER CORP. 1981
ASCOT RESOURCES, 1990, 1991


424500 mE
425000 mE
425500 mE
426000 mE
426500 mE
6397500 mN
6397000 mN
6396500 mN
6396000 mN
JERICHO RESOURCES GRID
Values >= 5 ppb Au
1991 ROCK SAMPLES
PL1222 to PL 1227
Values to 1150 ppb Au/2.2m
HORN EAST
AA-74
350
1340
1.84
AA-52b
72/124/0.32
1,528
PL 1594
0.411 opt Au
AD-08
11
652
0.79
AD-07
0.17
ASCOT RESOURCES GRID
TRIUMPH RESOURCES
1990 SILTS
ppb Au/ppm Cu
4500 / 93
WHAT NOW
Zone of hand trenching
Tenajon Resources
1981
AA-76
92
54
13.0
AA-53b
87/368/0.65
AC-06
79/454/0.38
AA-506
74/164/0.64
1,207
1991 ROCK SAMPLES
PL1213 to PL 1220
Values to 1750 ppb Au/1m
1,505
LEGEND
SILT SAMPLES
Sample No.
Cu ppm/Au ppb/Ag ppm
Au ppb / Cu ppm
SOIL SAMPLES
Au ppb
SOIL ANOMALY
>=60ppb Au
ROCK GRABS
Sample No.
Cu ppm
Au ppb
Ag ppm
TENAJON
ROCK GRABS
oz/ton Au
SHOWING
0
250
500
Meters
ROYAL COUNTY
MINERALS CORP.
KINASKAN LAKE PROJECT
HORN EAST - WHAT NOW AREAS
PREVIOUS WORK
DATE: August 2002
NTS: 104G090
SCALE: 1:15,000
FIGURE NO: 11
SOURCES: TENAJON SILVER CORP. 1981
ASCOT RESOURCES, 1990, 1991
TRIUMPH RESOURCES LTD. 1990
JERICHO RESOURCES LTD. 1992

yielded further anomalous grabs including sample PL 1504 which returned 2.12 oz / ton Au and sample PL 1502 which returned 0.146 oz / ton Au.

Also in 1990, Triumph Resources Ltd. carried out a silt sampling program on their What Now property along the same drainage that flows through the Horn East target but approximately 550 meters to the east. Although the work was minimal highly anomalous gold values to 4500 ppb were obtained over a 400 interval along the creek drainage (see Figure11). The significant results are noted in the following Table 11.

Table 11: Stream Silt Samples From the What Now Property, Triumph Resources, 1990.

Sample No.	Au ppb	Cu ppm
WN-90-22	55	79
WN-90-23	4500	93
WN-90-24	25	78
WN-90-25	10	88
WN-90-26	510	78
WN-90-27	2150	79
WN-90-28	920	86
WN-90-29	3500	77
WN-90-30	630	89
WN-90-31	3800	83

Since 1990 no exploration work has been carried out on the Horn East target despite there being a gold soil geochemical anomaly that is traceable for about 1.5 km. along strike and float samples from the area, which is mostly covered by till and overburden have yielded samples grading up to 2.12 oz / ton gold.

These results, when combined with the highly anomalous gold in silt values obtained from the What Now property along strike to the east, provide a target that requires further soil sampling to define the total extent of the anomalous zone and then because of the extensive overburden, requires follow-up definition work with an IP geophysical survey before trenching or diamond drilling can be carried out.

Trevor Peak

The Trevor Peak vein showings are located in the southeastern corner of the property approximately 22 km. southwest of Iskut Village (see Figure 7). These showings were discovered in 1990 by Ascot Resources Ltd. as the result of follow-up prospecting and rock sampling of favorable areas outlined in a large regional silt geochemical survey in 1989.

At Trevor Peak, mineralization consists of grey to white quartz veining with stringers and disseminations of pyrite, chalcopyrite and arsenopyrite containing significant gold and silver values. Country rocks are described as cherty mafic ash tuffs in contact with the Early Jurassic, Groat stock to the immediate north and west of the showing area. The principal showings are gossanous shear structures which occur over an area of 500 by 600 meters within the cherty ash tuff unit. The structures are several meters in width, strike approximately north south and dip to the west (Olfert, 1991). Talus and overburden obscure much of the lower third of the steep, north facing Trevor Peak slope and cover over half of the somewhat gentler south face.

In 1990 as a result of extensive prospecting, two significant mineralized showings (Toon & Flin) were discovered (see Figure 12).

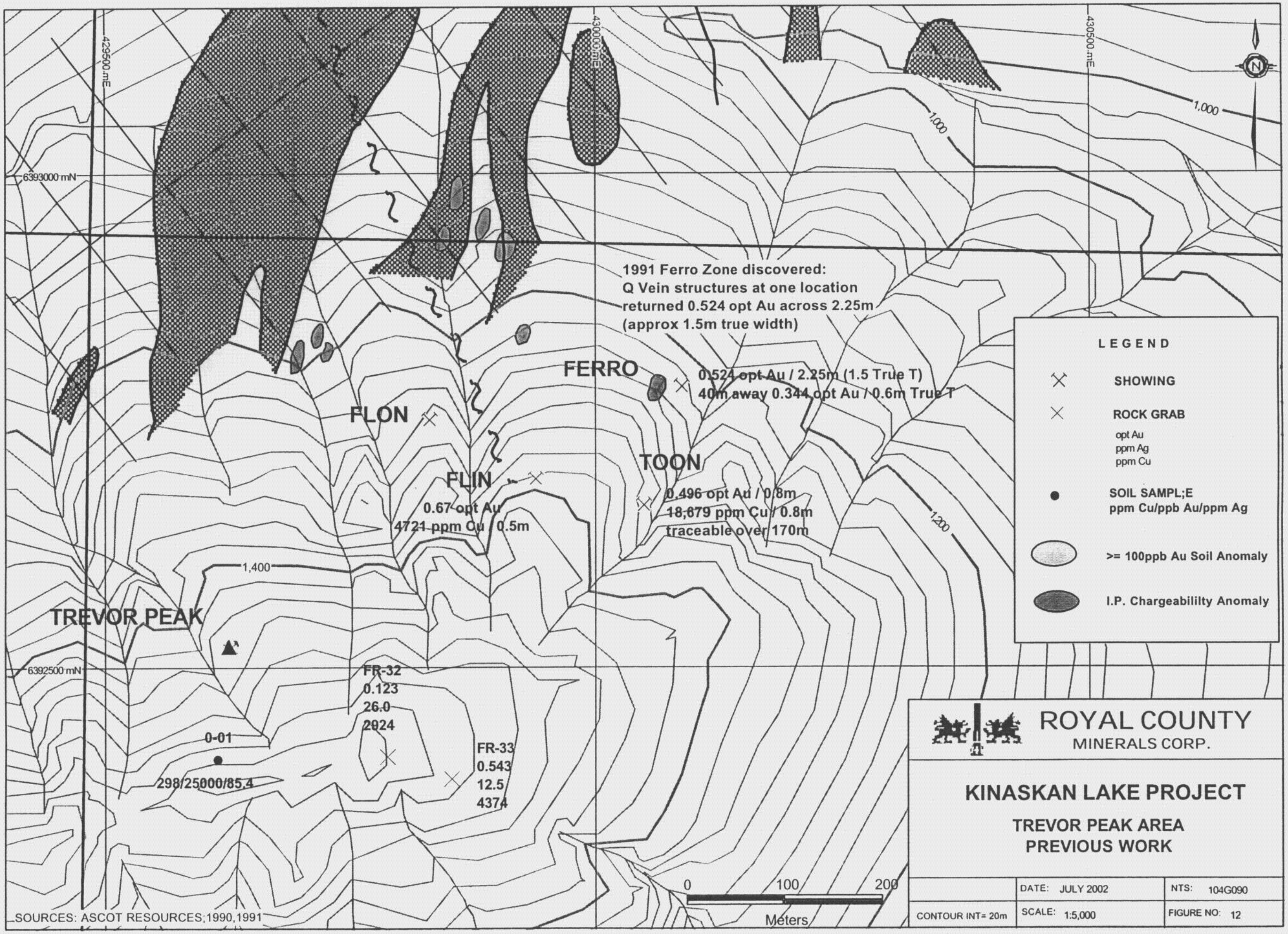
-**Toon**: 0.496 oz / ton and 18,679 ppm Cu across 0.8 meters; this zone has been traced 170 meters along strike.

- **Flin**: 0.67 oz / ton and 4,721 ppm Cu across 0.5 meters.

Further prospecting in 1991 resulted in the discovery of a third significant showing:

-**Ferro**: a prominent quartz vein grading 0.524 oz / ton Au across 2.25 meters (approximately 1.5 meters true width) and 0.344 oz / ton Au across 0.6 meters true width 40 meters away along strike. " A mixed ferrocrete and quartz zone along the hangingwall of this quartz vein was chip sampled returning 0.106 oz / ton Au across 4.2 meters (approximately 2.25 meters true width) and 0.204 oz / ton Au across 3.0 meters (2 meters true width) respectively" (Olfert, 1991).

Besides work on the vein showings, grid soil sampling has been carried out and outlined an anomalous area over 600 meters in strike containing > 100 ppb Au down slope and along strike as well as to the east from the showings (see Figure 12. In 1991 a number of widely spaced IP geophysical test lines were run down hill from the showings. Significant chargeability highs coincident with the strike projection of the Ferro zone were obtained but the survey was not detailed enough to map out the targets. Limited prospecting up-hill of the known showings has returned rock grabs with values to 0.543 oz/t Au (sample Fr-33) and a soil taken from gossanous material graded 25,000 ppb Au (soil sample O-01). Gossans have also been noted on the south side of Trevor Peak suggesting the north-south trending structures hosting the vein/gold mineralization may carry through but little work has been done to verify that.


429500 mE
430000 mE
430500 mE
6393000 mN
6392500 mN
1,000
1,000
1,200
1,400
1991 Ferro Zone discovered:
Q Vein structures at one location
returned 0.524 opt Au across 2.25m
(approx 1.5m true width)
FERRO
0.524 opt Au / 2.25m (1.5 True T)
40m away 0.344 opt Au / 0.6m True T
FLON
FLIN
0.67 opt Au
4721 ppm Cu / 0.5m
TOON
0.496 opt Au / 0.8m
18,679 ppm Cu / 0.8m
traceable over 170m
TREVOR PEAK
FR-32
0.123
26.0
2924
FR-33
0.543
12.5
4374
0-01
298/25000/85.4
LEGEND
SHOWING
ROCK GRAB
opt Au
ppm Ag
ppm Cu
SOIL SAMPL;E
ppm Cu/ppb Au/ppm Ag
>= 100ppb Au Soil Anomaly
I.P. Chargeabililty Anomaly
0
100
200
Meters
SOURCES: ASCOT RESOURCES;1990,1991
ROYAL COUNTY
MINERALS CORP.
KINASKAN LAKE PROJECT
TREVOR PEAK AREA
PREVIOUS WORK
DATE: JULY 2002
NTS: 104G090
CONTOUR INT= 20m
SCALE: 1:5,000
FIGURE NO: 12

The combination of significant gold values in well developed quartz veins that appear to be structurally controlled, can be traced over tens of meters and are up to 1.5 meters thick (true thickness) provides a target that merits trenching or drilling. A significant gold soil anomaly down slope but also to the east combined with highly anomalous gold values up hill from the known showings suggests other veins likely occur in the area and further work exploring Trevor Peak including the south facing slopes is warranted.

Tuk – A8/A9

The Tuk showing is located on the northern part of the Klastline Plateau about 10 kilometres west-southwest of the town of Iskut. The claim was staked to follow-up on some anomalous rock samples collected by previous workers and to cover a possible continuation eastward of gold mineralization identified on the adjacent "Castle" property.

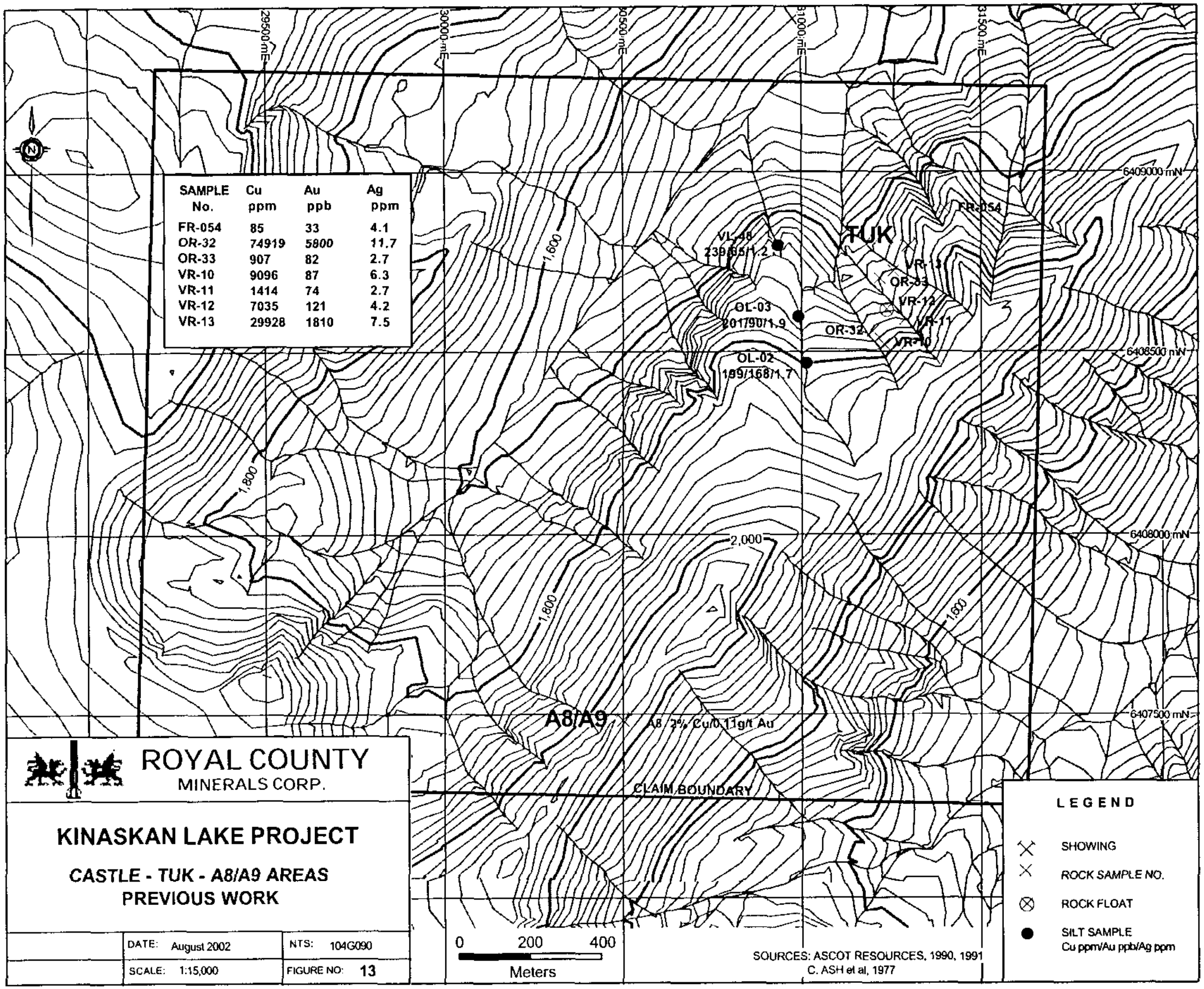
Known historical work is limited to the taking of a few rocks, soils and silt samples in 1990 followed by limited prospecting in 1991 (Figure 13).

Area geology (Figure 7) has been mapped by Ash (1997) as grey-green and maroon, feldspar hornblende-porphyritic andesitic to dacitic debris flows and lahars; minor flows; with intervals of green and maroon epiclastic conglomerate and medium to coarse-grained crystal lithic wacke with angular, red mudstone fragments of the Lower Jurassic Hazelton Group. On the Tuk claims rocks are described as andesite flows cut by a medium- to fine-grained hornblende diorite plug or dike (Mehner, 1990; Olfert, 1991).

Mineralization consists of calcite-quartz veining containing disseminated chalcopyrite, malachite, azurite and pyrite. The quartz veins are typically 2 centimetres wide but may be up to 20 centimetres wide and have been traced over 100 metres. Most of the veining occurs in andesite flow rock near the diorite contact. A summary of significant rock samples is shown below in Table 12.

Table 12: Significant Rock Sample Results From the Tuk Claim, Ascot Res., 1990-91

Sample No.	Cu (ppm)	Au (ppb)	Ag (ppm)
VR-13	29,928	1810	7.5
VR-12	7035	121	4.2
VR-11	1414	74	2.7
VR-10	9096	87	6.3
FR-54	85	33	4.1
OR-32	74,919	5800	11.7
OR-33	907	82	2.7



SAMPLE No.	Cu ppm	Au ppb	Ag ppm
FR-054	85	33	4.1
OR-32	*74919*	*5800*	*11.7*
OR-33	907	82	2.7
VR-10	9096	87	6.3
VR-11	1414	74	2.7
VR-12	7035	121	4.2
VR-13	29928	1810	7.5

ROYAL COUNTY
MINERALS CORP.

KINASKAN LAKE PROJECT

CASTLE - TUK - A8/A9 AREAS
PREVIOUS WORK

DATE:	August 2002	NTS:	104G090
SCALE:	1:15,000	FIGURE NO:	13

During the course of regional mapping in 1996, two small copper showings, A8 and A9 were located by members of the B.C. Geological Survey Branch approximately 1.4 km south southeast of the Tuk showings (Figure 13).

The A8 showing consists of a 0.5-meter wide gossan where 5 per cent disseminated chalcopyrite and malachite occurs in andesitic breccia/wacke. A sample (A8) assayed 2 per cent copper and 0.11 gram per tonne gold (Ash, 1997).

Although little work has been done in the area of the Tuk claim in the past, highly anomalous copper and gold values have been obtained from vein material peripheral to an Early Jurassic intrusive. This combined with reportedly significant anomalous gold and copper values in a relatively similar geological setting on the adjacent Castle property suggests the Tuk claim warrants further evaluation by prospecting and rock sampling particularly toward the south and western side of the claim.

Others Anomalous Areas

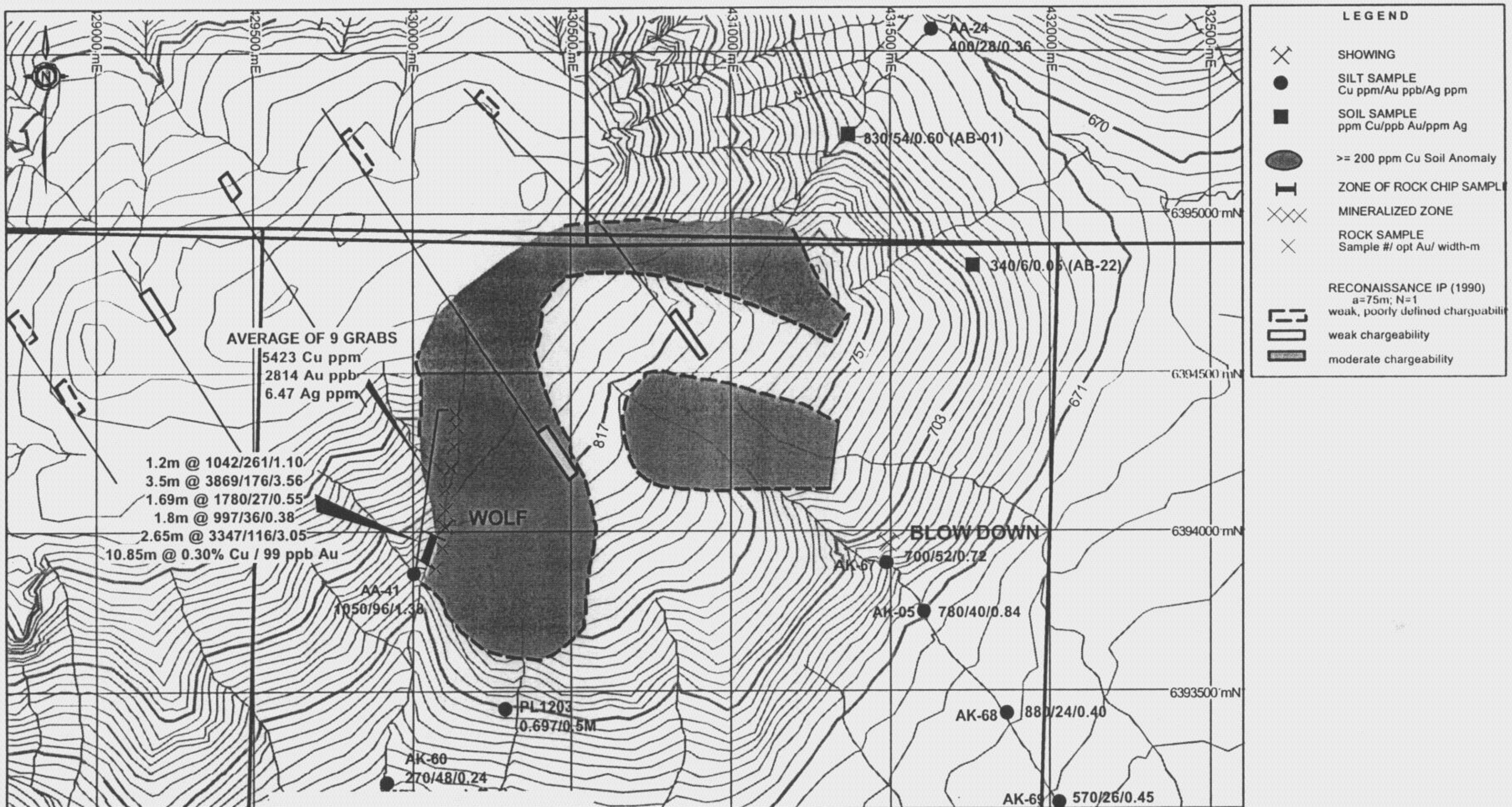
In addition to the well defined targets listed above, a review of historical data indicated numerous other areas within the property boundary have yielded significant gold and silver values in rock grabs, rock float or stream silt samples. In most cases follow-up work has been carried out and no target was developed. However two areas of interest do remain. These include:

a) Quash Creek silt anomaly: Silt sampling carried out by Teck in 1988 (Delaney, 1988) identified a drainage approximately 400 meters southeast of the Gordon vein area that yielded a number of anomalous gold and silver values (Figure 4) including:

Au (ppb)	Ag (ppm
120	0.82
345	1.55
8	1.40
29	1.50

Although these numbers are not exceptionally high, their location relative to the Gordon Vein area and nearby QC porphyry zone makes the drainage a target that warrants further exploration by prospecting and soil sampling.

b) Wolf-Blow Down: This target is situated directly north of Trevor Peak along south and east facing slopes and a plateau. It was first explored by Nuspar Resources in the 1970's and then most recently by Ascot Resources between 1989-1991 (Mehner, 1990c, 1991a, Olfert, 1991). The initial focus of Ascot's work was the Wolf showing where copper mineralization was known to occur and Blow Down Creek where silt sampling in 1989 yielded four stream silts with 570 ppm Cu to 880 ppm Cu over a 900 meter interval (Figure 14). Follow-up exploration included geological



ROYAL COUNTY
MINERALS CORP.

SOURCES: ASCOT RESOURCES, 1990, 1991

KINASKAN LAKE PROJECT

WOLF - BLOW DOWN AREAS PREVIOUS WORK

0 250 500
Meters

DATE:	August 2002	NTS:	104G090
SCALE:	1:20,000	FIGURE NO:	14

mapping, prospecting, rock, soil and silt sampling and eventually 4.8 km of IP geophysics. This outlined an open 600 by 300 meter copper soil anomaly along a dioritic contact with siliceous cherty tuffs that is partly coincident with a weak to moderate chargeability response. The average grade of nine grab samples taken over 600 meters over the Wolf showing within the soil anomaly averaged 5423 ppm Cu, 2814 ppb Au and 6.47 ppm Ag (Figure 14). Although these samples appear to have been taken from small veinlets rather than of representative rock of the area, they do indicate significant gold values do occur. Limited prospecting 500 meters south-southeast from here also yielded 0.697 oz/ton Au over 0.5 meters at a location referred to as the "pup" (sample PL1203; Figure 14).

By itself the Wolf- Blow Down area is of marginal interest. However the presence of significant gold values albeit in small veinlets is significant when combined with the nearby Trevor Peak.

XI. 2002 FIELD PROGRAM

During the 2002 field season a total of 64 mandays was spent on the property in two main areas, QC-Gordon and Horn East resulting in a total expenditure of $ 75,000 .

Sampling Procedures

Grid soil samples, contour soils, reconnaissance soils, rock grab, rock float and rock chip samples were taken by trained geological staff under the supervision of the author. Notes were taken at these sites to include the media sampled, and in reference to rock sampling the samples were described, locations for all sites was determined by G.P.S (Nad 83) were possible or at the very least referenced relative to adjacent G.P.S sites.

All soil sample sites are identified by pink and blue flagging with an aluminum tag etched with the location (which also corresponds to the sample identification) that was attached to an adjacent tree or bush with a metal twist tie. The baseline at the Horn East grid was established with cedar pickets that had the aluminum tags stapled on to them. For the most part soil samples were taken on lines spaced 100 metres apart with samples taken at 50 m sample spacings. In places were gridding was not practical or in areas of preliminary work soil samples were taken along contour to provide an evaluation of possible mineralization upslope. Occasionally individual soil samples were also taken in the evaluation of a particular site. In one instance a number sequence (usually reserved for rock sampling) was used to label reconnaissance soil samples, however these are clearly labelled in the database as soils.

Rock samples were collected by the geologists and prospector and notes were taken describing the sample and its location. At these sites flagging and a marked aluminum tag were left at the sample site, and in most instances a representative sample was left at the site with flagging left around it, to help identify the actual sample in case of later follow up.

Samples were securely fastened both individually and in rice sacks and remained in Keewatin Consultants 2002 presence until transferred to Bandstra Trucking for delivery to Acme Laboratories in Vancouver. The author has no reason to believe that the samples were tampered with in any way, however cannot vouch for those outside of his presence.

Standards and blank standards inserted by Acme Laboratories are considered adequate for this early stage of exploration, however a more stringent independent quality control program would have to be implemented if future trenching and/or drilling is contemplated.

Samples that returned in excess of 1,000 ppb Au were further chosen to have a fire assay conducted on them to provide a more accurate determination.

2002 Field Program

The 2002 exploration work is discussed in the context of prospective areas outlined by previous workers and as noted under the above PROPERTY MINERALIZATION.

Gordon Vein Area

A four man "fly camp" was established on Quash Creek immediately south of the Gordon Vein area from August 19 th to August 27 th, 2002 (see Figure 15). This work involved the extension of the previous Gordon Soil Grid to the southeast and prospecting and sampling in the general area. Foot traverses were conducted up Gordon's Creek to investigate the Main, Top, Gordon, Upper Gordon and Oz showings, and other areas to the south of Gordon.

The work at QC-Gordon consisted of the collection of 39 rock samples and 171 soil samples and involved the extension of the previous Gordon Soil Grid to the southeast and prospecting and sampling in the general area.

QC Porphyry Area

No work was conducted in the QC porphyry area during the 2002 field season, a number of previous stream sediments and soil and rock samples taken to the west of the main gossan zone (see Figures 3, 4 & 9) however are noted to be anomalous and could be worked based out of the Quash Creek camp used to evaluate the Gordon area.

Horn East – What Now Area

A four man "fly camp" was setup on the east side of Quash Creek just at treeline to complete work in the headwaters of Quash Creek in the Horn East-What Now areas (See Figure 16). The work at Horn East included the collection of 99 rock and 325 soil samples.

Trevor Peak

No work was conducted during 2002 in the Trevor Peak area, although the area still constitutes a high priority (see Figure 12) and work is proposed for the 2003 field season.

Tuk – A8/A9

No work was conducted during 2002 in the Tuk – A8/A9 area (see Figure 13) due to postponement of Phase II work due to snowfall. Because the claims are separated from the main block filing of PAC or payment by cash-in-lieu will be required to keep them in good standing.

Other Areas

As noted in the above PROPERTY MINERALIZATION section other prospective areas were noted by previous workers and include the Quash Creek silt anomalies and the Wolf-Blow Down areas. The Quash Creek silt anomaly (see Figures 4 & 15) was only partially evaluated in context with work at Gordon, and given the anomalous soil values near the ends of the 2002 contour soil lines (see Figure 15) and the previous anomalous silts this area becomes even more important for follow up.

In the Wolf –Blow Down area (see Figure 14) no work was undertaken during the 2002 field season, however work is still recommended and should be done in conjunction with work in the Trevor Peak area.

XII. 2002 FIELD PROGRAM RESULTS

Gordon Vein Area

A total of 39 rock and 171 soil samples were taken in the Gordon area. Encouraging rock sample results (see Figure 15) include a new discovery (Team Showing- Figure 17) low down on Gordons Creek which returned 15 g/t Au, Cu 0.4%, Pb 2%, Zn 6.7% and Ag 197 g/t from subcrop in a talus slope, values of 7-11.6 g/t Au from the Main-Top showing area (Figure 17) and Cu-Au values to 1.6% Cu and 3 g/t Au in an area to the southeast of Gordon (Figure 18).

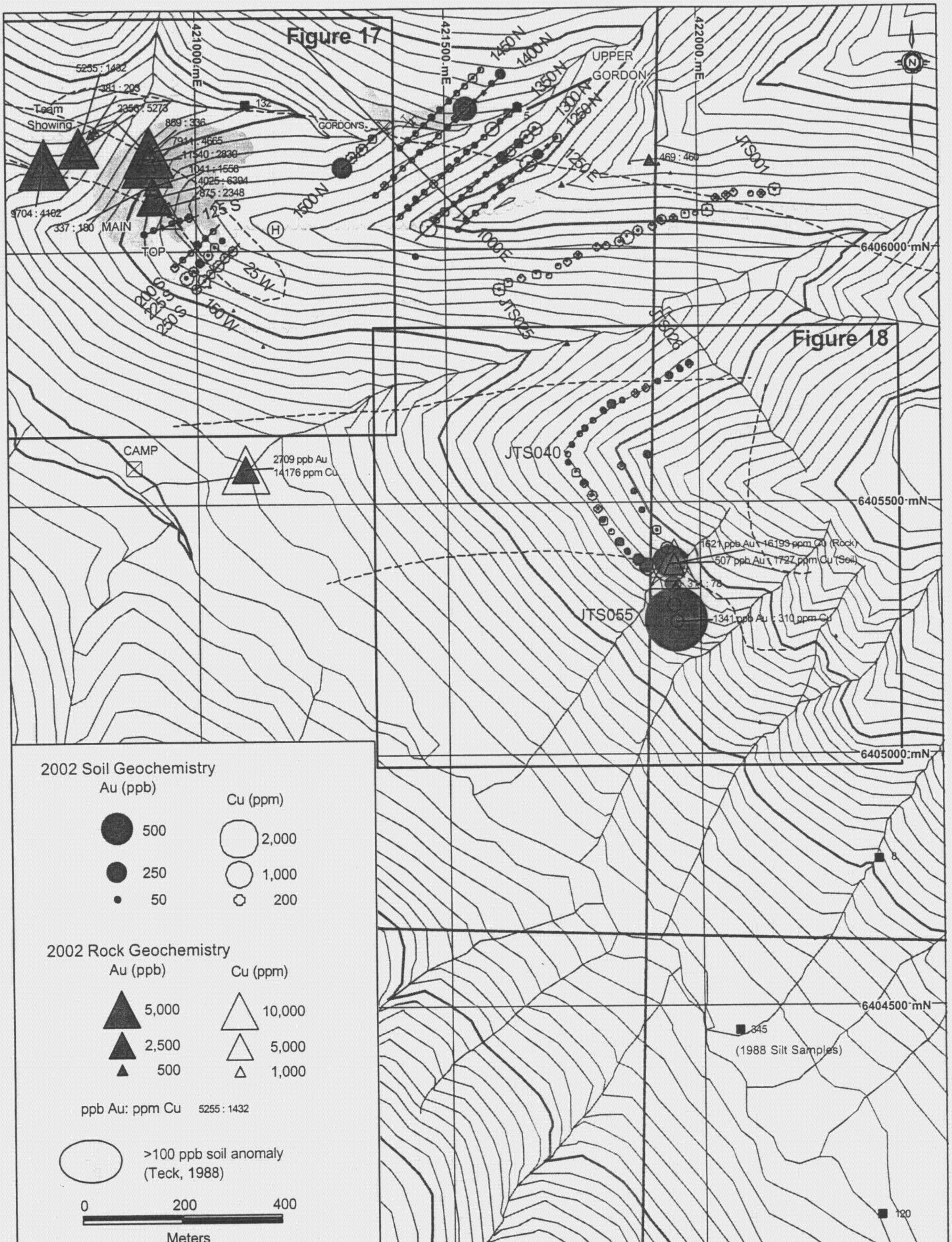


Figure 15 KINISKAN LAKE PROJECT - GORDON VEIN AREA - 2002 Au-Cu GEOCHEMISTRY

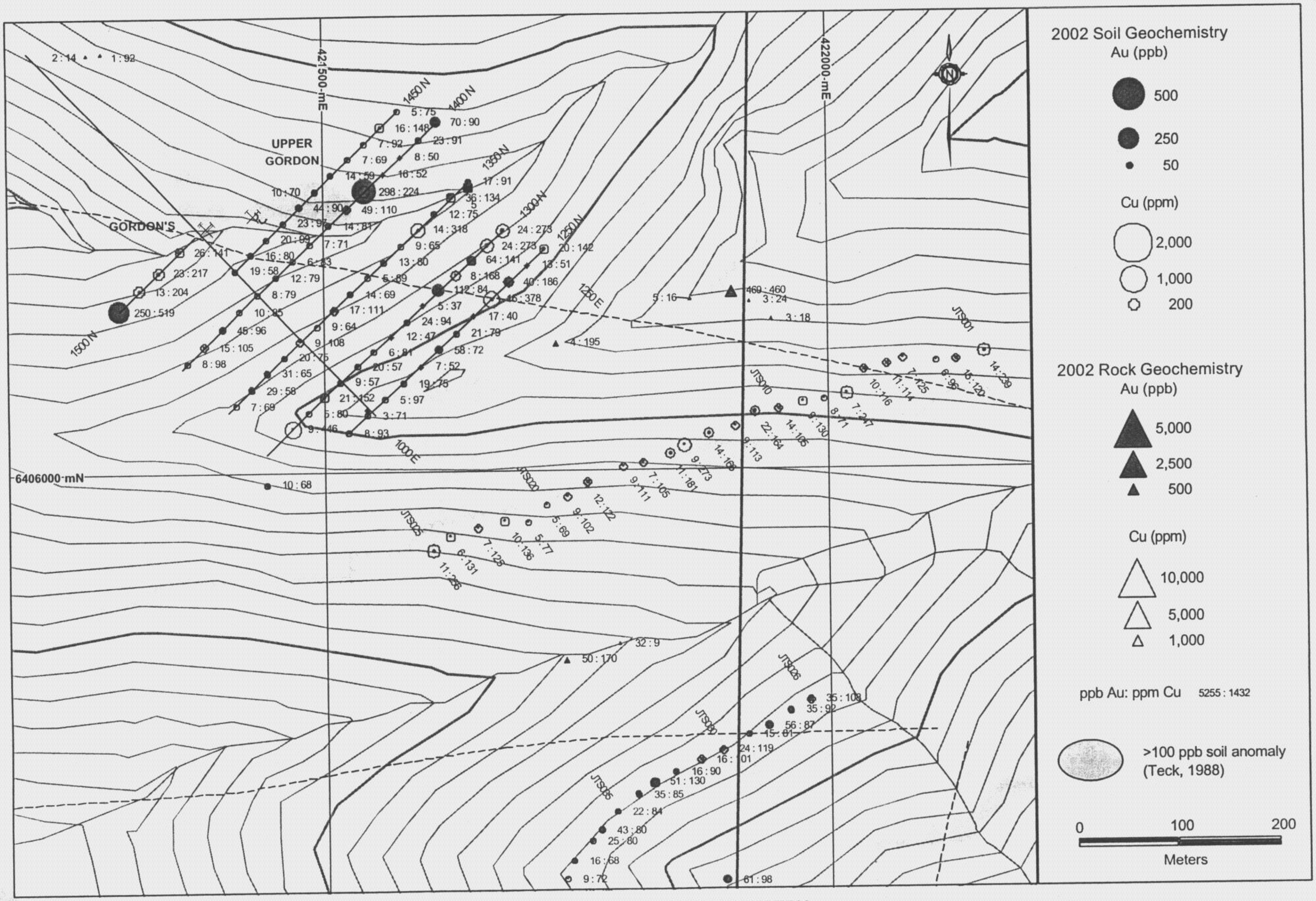


Figure 16 KINISKAN LAKE PROJECT - GORDON VEIN PROSPECT - 2002 Au-Cu GEOCHEMISTRY

Upper Gordon

Brief geological observations conclude that previous workers have conducted a number of detailed sampling and mapping programs that appear accurate. At Gordon the disjointed nature of the vein and difficult topography suggest that detailed structural interpretations are required prior to the commencement of any possible drilling.

Morrice (1991) has described the Upper Gordon showing as follows: "The Upper Gordon showing comprises a number of quartz +/- carbonate +/- pyrite +/- sphalerite +/- chalcopyrite veins that are exposed in a series of trenches along a strike length of 75 metres. Arsenopyrite is ubiquitous but minor constituent. The sulphides are in turn cut by late calcite veins. At the east end of this exposure the vein system is broken by a number of faults with small displacements. The vein system changes dramatically both in outcrop and drill core along strike to the west. The central part of the exposure comprises several narrow (<10 cm), sphalerite +/- quartz +/- chalcopyrite veins. High gold values are restricted to the veins; wallrock contains < 100 ppb gold. This disjointed nature of the vein suggests either offsetting by faulting or that the vein developed heterogeneously in a series of en echelon segments. The latter interpretation is preferred since DDH QC 91-5, while intersecting similar styles of mineralization failed to intersect the width of mineralization encountered in DDH QC 91-4 despite being drilled well beyond the strike extension of the vein intersected in DDH QC 91-4."

OZ Showing

The OZ Showing located 400 metres upstream of the Upper Gordon Showing was discovered and described by Tupper, 1992 as "calcite vein hosted mineralization... that appears to be similar to Gordon and Upper Gordon. The vein system was hand trenched with results up to 4.5 g/t Au, 82.4 g/t Ag, 0.1% Cu and 1.6% Zn returned. This area was only briefly examined during the 2002 field program and as recommended then expansion of the Gordon soil grid and trenching is recommended.

The area of 1992 anomalous samples to the east of the OZ Showing was examined briefly and given the highly selective nature of the samples and restricted potential proposed soil grid work was not conducted.

Main, Top and Team Showings

Old Trenches in the Main and Top areas were briefly sampled and examined during the 2002 field program and soil samples were taken along possible strike to the southeast (see Figure 17). Morrice 1991 conducted mapping and sampling in the area and concluded that the majority of veins were narrow and discontinuous and the only ones that warranted further work were the Upper Gordon's, Gordon, Main, Top and Ankerite which comprise the Vein Zone, with the Upper Gordon's the most productive. The Main Showing area contains the most widespread gold soil geochemical anomaly in the

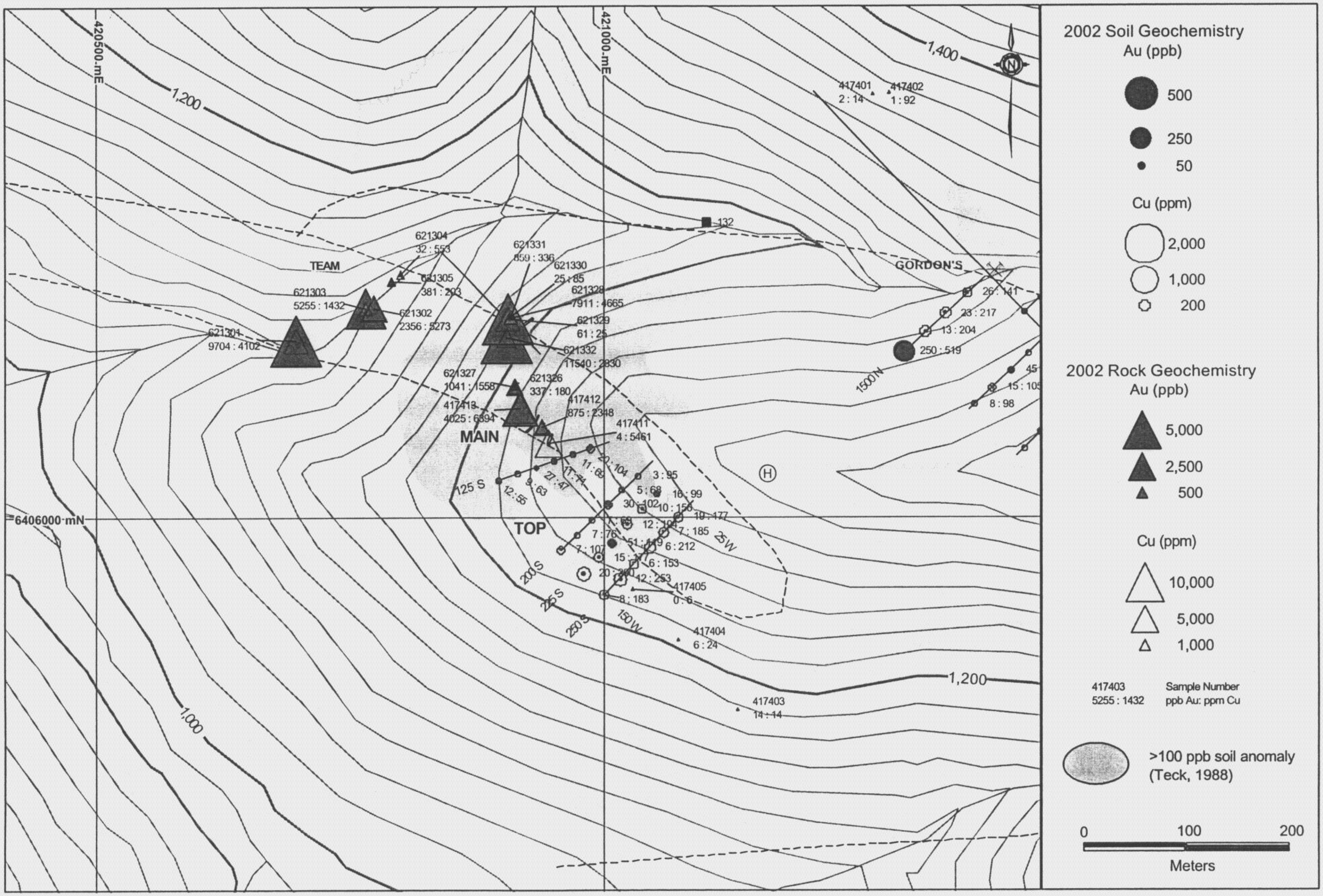


Figure 17 GORDON VEIN AREA - TEAM / MAIN / TOP PROSPECTS - 2002 Au-Cu GEOCHEMISTRY

immediate area (see Figure 8). Geological observations from the 2002 field program indicate that narrow (< 20 cm) quartz carbonate base metal +/- precious metals have been emplaced into brittle fractures within a southeasterly trending diorite body. These veins have caused widespread soil geochemical anomalies perhaps overstated due to the steep topography. Although exploration potential has not been fully evaluated it appears that mineralization found to date is too restricted to be of economic interest. Interesting new discoveries such as the Team Showing which returned Au 15 g/t, Cu 0.4%, Pb 2%, Zn 6.7% and Ag 197 g/t from subcrop in a talus slope however indicate that exploration potential has not been exhausted.

South East Gordon

Regional mapping by Ash et al (1997) shows an east-trending, elongate Early Jurassic intrusive body, varying from hornblende quartz diorite to monzodiorite and monzonite intruding both Upper Triassic Stuhini Group sediments and Lower Jurassic Hazelton Group andesitic breccias and conglomerates (Figure 7). This newly mapped body in combination with anomalous contour soils taken by Teck in 1988 was rationale for conducting two contour soil and prospecting traverses in the area (see Figure 15 & 18). Encouraging results from this reconnaissance work included rock sample results to 1.62 g/t Au and 1.62 % Cu with soils to 1341 ppb Au and 310 ppm Cu and as such constitutes a potential new discovery.

Horn East – What Now Area

Out of a total of 99 rock samples only one sample returned a value greater than 1 g/t Au, at 6.95 g/t Au from quartz vein float (see Figure 19). The rock samples however show considerable values in lead (to 4.5% Pb) and zinc (to 10% Zn) from numerous (>20) discontinuous quartz veins in an newly discovered area called the Second Honeymoon (see Figure 20), unfortunately gold values are usually less than 200 ppb (see Figure 21). Other areas of interest include a gossanous area immediately SW of the Second Honeymoon area with elevated copper (to 0.85% Cu) and weak (192 ppb) gold in quartz/carbonate altered zones. Upstream of the previous gold in stream sediment anomalies semi-massive lenses of chalcopyrite have returned values to 9.7% Cu in a new area called the Copperside, however they also returned low gold values.

The 2002 soil sample results show 8 samples that returned > 100 ppb Au with highs to 796 ppb Au, concentrated in the NW corner of the grid. Four soils returned values > 400 ppm Cu in an area down slope of the Second Honeymoon showing.

This work program has demonstrated that new showings can be found in areas previously worked and that substantial gold anomalies have been returned from soil sampling. No definite bedrock source was found to explain the previous substantial gold in stream sediment anomalies. It however is inferred that easterly trending carbonate altered structures like those at Horn East are the probable source.

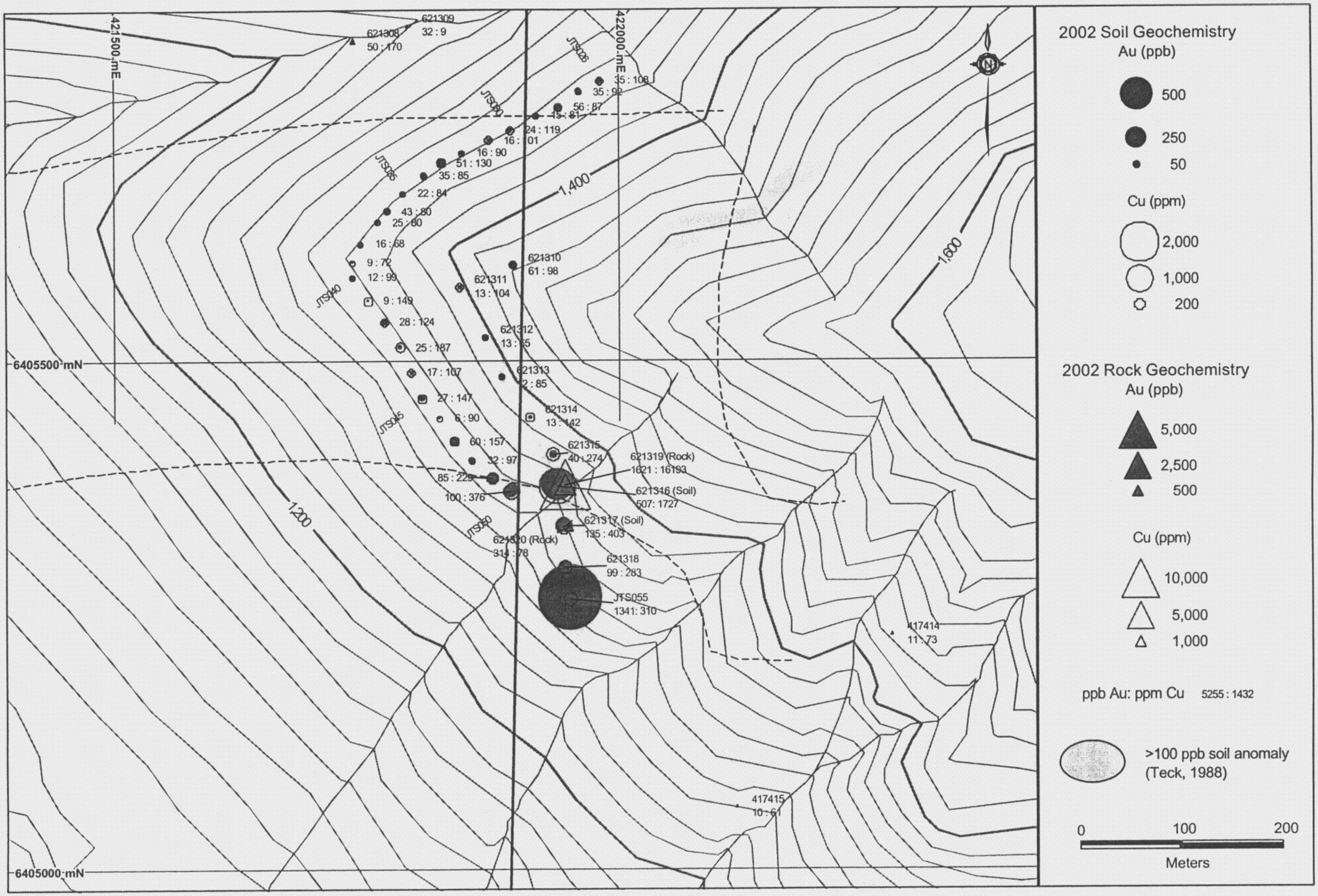


Figure 18 KINISKAN LAKE PROJECT - SOUTHEAST OF GORDON - 2002 Au-Cu GEOCHEMISTRY

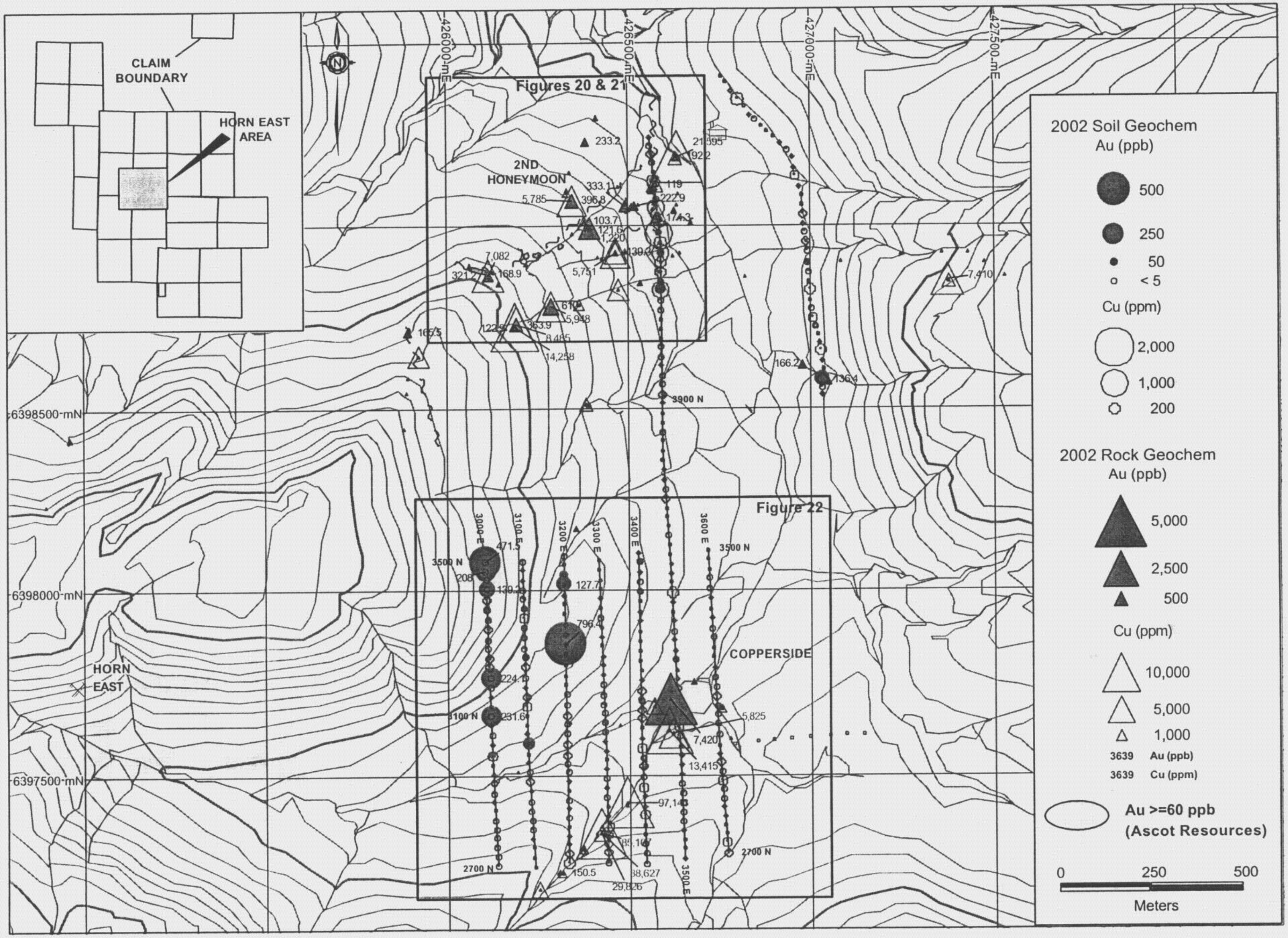


Figure 19 Kinaskan Lake Project - Horn East Area - 2002 Cu-Au Geochemistry

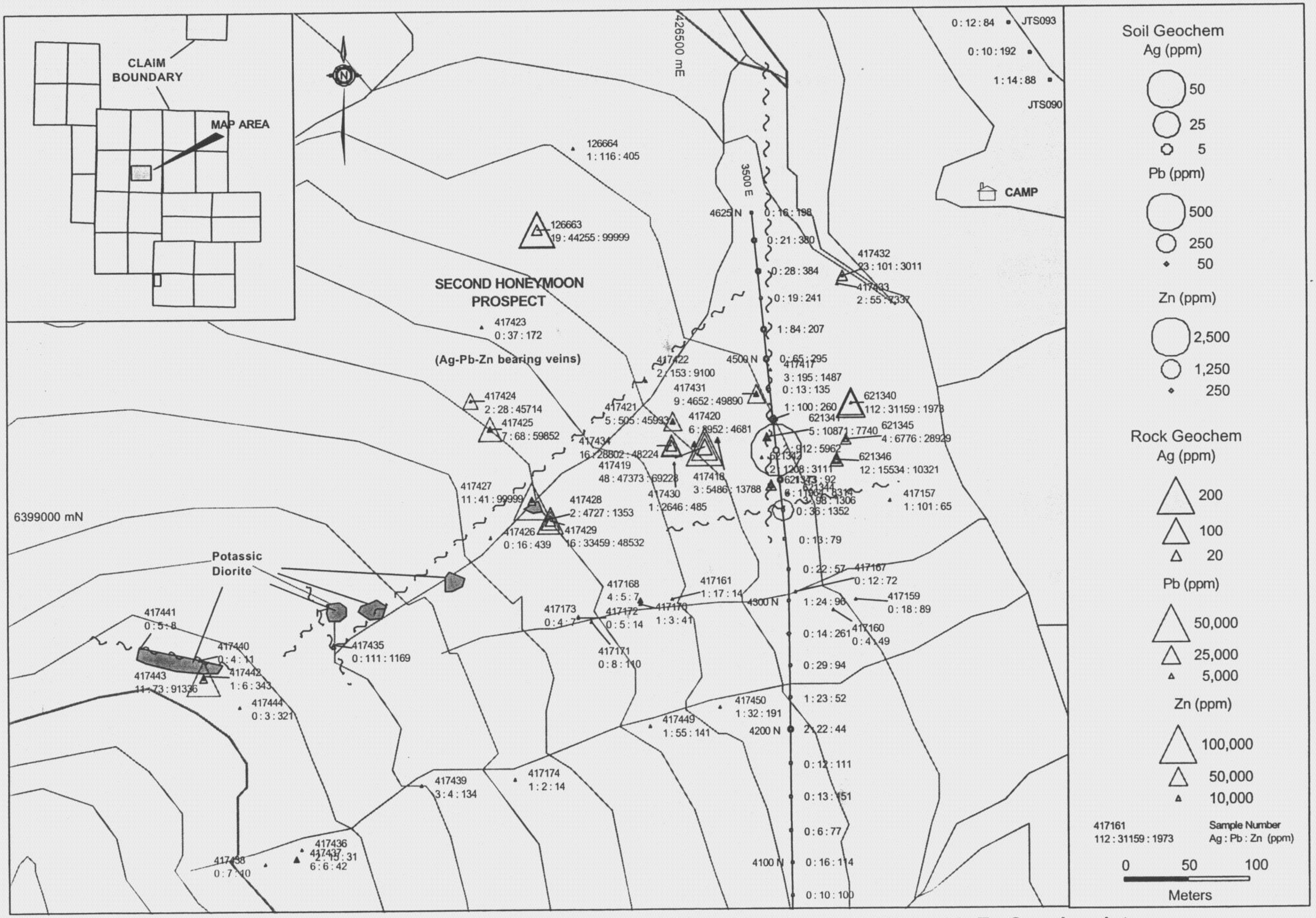


Figure 20 Kinaskan Lake Project - Second Honeynmoon Prospect (Horn East Area) - 2002 Ag-Pb-Zn Geochemistry

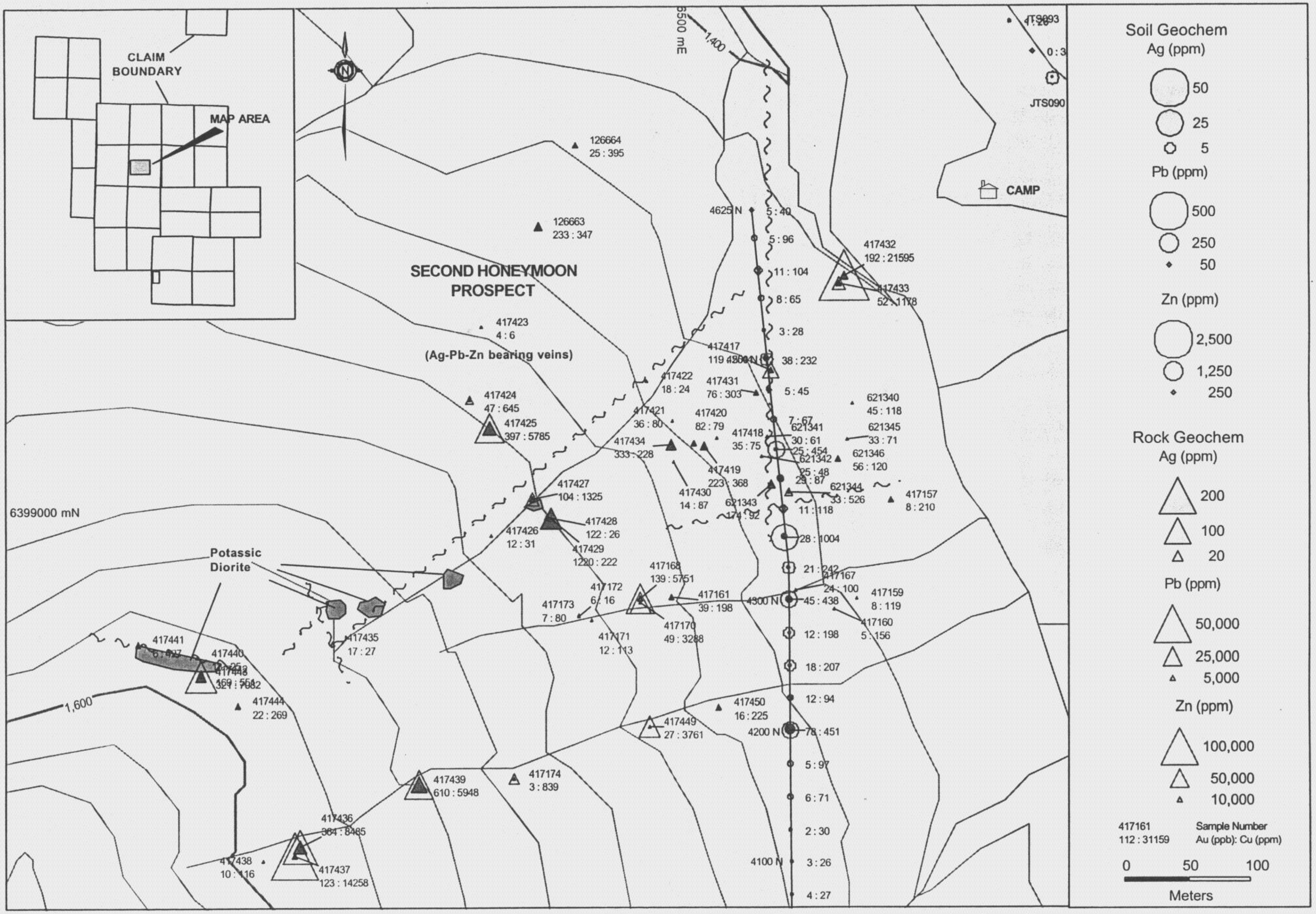


Figure 21 Kinaskan Lake Project - Second Honeynmoon Prospect (Horn East Area) - 2002 Au-Cu Geochemistry

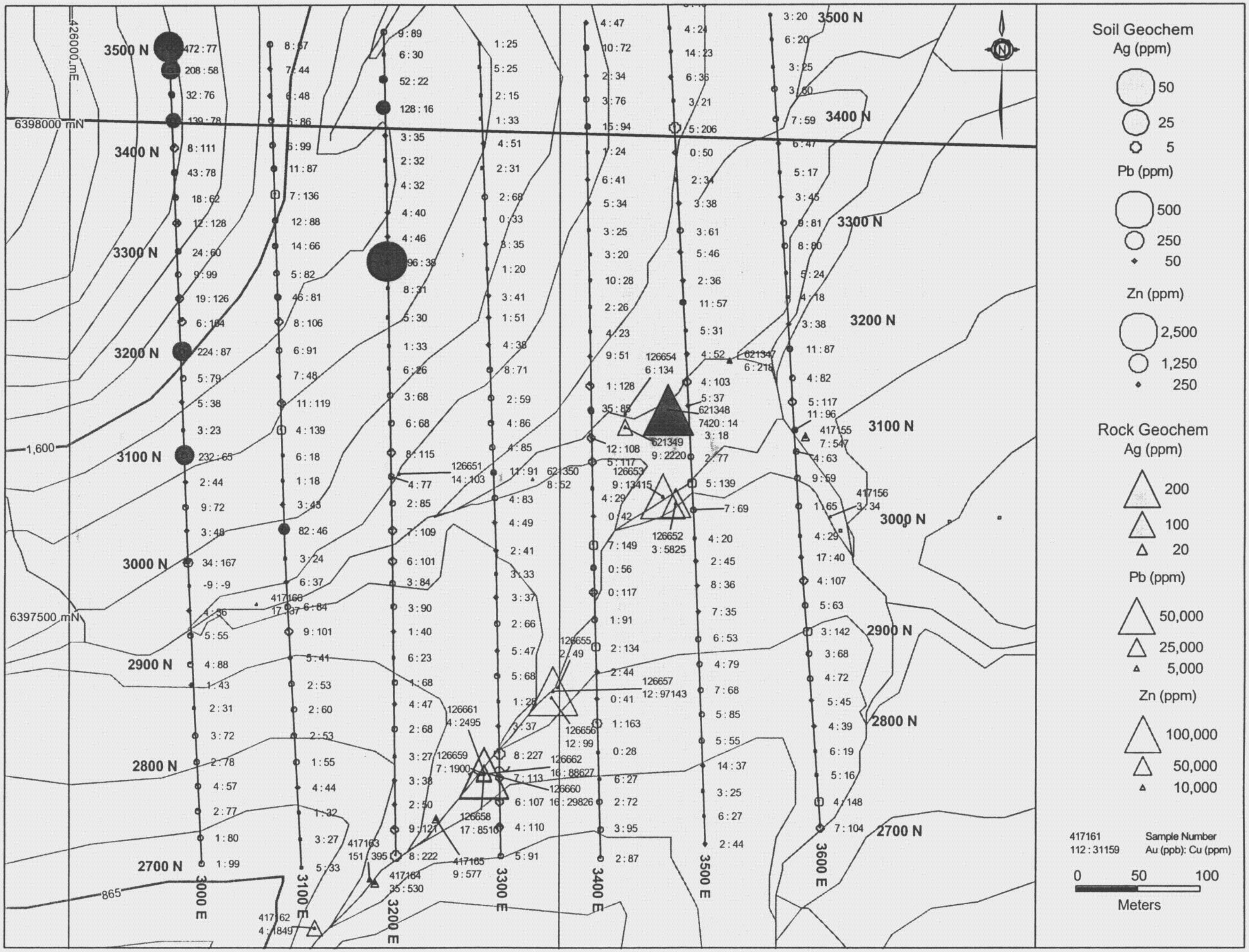


Figure 22 Horn East Area - Copperside Prospect - 2002 Au-Cu Geochemistry

XIII. RECOMMENDATIONS AND CONCLUSIONS

A review of all existing data on the area covered by the Kinaskan Lake property indicates there are at least six separate areas that have yielded significant gold and silver values in sulphide bearing quartz veins.

Gordon Vein Area

The most developed target area on the property is the Gordon Vein area where previous soil sampling has identified at least 3 gold soil anomalies of > 100 ppb within which the Top (0.340 oz/t Au & 10.6 oz/t Ag over 1 meter), Main (0.380 oz/t Au & 2.90 oz/t Ag over 1.3 meter) and Upper Gordon (0.550 oz/t Au & 5.90 g/t Ag over 2.45 meters) veins have been identified. To date only the Upper Gordon vein has been drilled and despite intersecting 19.9 g/t gold, 202.3 g/t silver, 3.08 % copper and 5.31 % zinc over 2.47 meters true thickness in DDH 91-4, no follow-up has taken place. Based on this intersection further work including detailed structural interpretation and drill testing of the Upper Gordon and grid soil sampling is required. Work during the 2002 field season included the collection of 39 rock samples and 171 soils. These soils have returned several samples > 250 ppb Au near the Gordons showing that require follow up but more significantly soil samples have also returned values to 1341 ppb Au and 1727 ppm Cu from soils located 1200 metres southeast of Gordon. Silt samples taken in 1988 another 800 metres southeast have returned values to 345 ppb Au. These anomalous samples suggest that a new gold +/- copper enriched zone may exist in a relatively unexplored portion of the property. Detailed sampling and prospecting is highly recommended in this area, something that could be done in co-ordination with an investigation of still unexplained anomalies peripheral to the QC porphyry on the south side of Quash Creek.

Horn East Area

At the Horn East-What Now area a large gold soil anomaly grading >60 ppb gold has been outlined by previous sampling over approximately a 1.5 km long by 75 to 100 meters. Although this area is extensively covered by overburden, float rock samples have returned numerous anomalous values including one grading 2.12 oz/t Au. Along strike, 550 meters to the east anomalous silt samples taken over a 400 meter interval in a small stream have returned values to 4500 ppb gold. Although some effort has been made at testing portions of the gold soil anomaly in the past by hand trenching, this has achieved only limited success and a source to explain the gold rich float has never been found. Work during the 2002 field season consisted of the collection of 99 rock and 325 soil samples and resulted in the new discovery of semi-massive copper mineralization at the Copperside Showing, quartz-carbonate lead-zinc-silver veins at Second Honeymoon and several soil geochemical anomalies. Unfortunately samples at Second Honeymoon and Copperside failed to return significant gold values and as such a definite bedrock source for the previous stream sediment anomalies remains unexplained. Recommended work in the area includes detailed investigation of the 2002 gold in soil anomalies, investigation of a previous 2.12 oz/ ton Au float sample and as suggested by Mehner, 2002 an IP geophysical survey over the gold soil anomaly to try and define the subsurface trace of any mineralized vein material prior to further trenching or drilling.

Trevor Peak Area

A fairly similar target to the Gordon Vein has also been developed by previous workers at the opposite end of the property on Trevor Peak where prospecting and hand trenching have uncovered the Ferro (0.524 oz/t Au over 1.5 meters true thickness), the Toon (0.496 oz/t Au over 0.8 meters) and the Flin (0.67 oz/t Au over 0.5 meters). Significant gold soil anomalies of > 100 ppb occur both down slope and east of the known showings and highly anomalous gold values in rock grabs have been obtained up hill suggesting the limits of the vein system are still not defined. Based on significant gold values at the known showings and evidence of widespread mineralization elsewhere on the mountain further work including drill testing of the Ferro, Toon and Flin veins and further prospecting both to the east and to the south (both up hill and on the south side of Trevor Peak) is required.

The remaining three targets are considerably less developed than those described above but because of anomalous silt and/or rock samples and proximity to other mineralized zones they warrant further exploration work. These include:

- Tuk: *minimal rock sampling has returned some quite anomalous values ranging* to 5800 ppb Au, 11.7 ppm Ag and 74,919 ppm Cu. Given its proximity to the Castle property where the geology is reported to be similar and published results include some very significant gold values, further prospecting and sampling is warranted on the Tuk claim. No work was completed in this area during 2002.

- QC west where rock grab samples of vein material have returned values up to 15,500 ppb Au and 11.0 ppm Ag in an area west of the QC, Main copper-gold zone. The creek draining this area is also highly anomalous in gold with values to 810 ppb. Further prospecting and rock sampling is required to determine the extent and significance of vein mineralization in this area.

- Quash Creek silts. Located between the QC copper-gold porphyry and Gordon Vein targets this cluster of anomalous silts with values up to 345 ppb Au and 1.55 ppm Ag warrants follow-up prospecting and sampling in search of a vein system comparable to that at the Gordon area. This area has become more significant as a result of soil sampling conducted during 2002 approximately 800 metres to the northwest that *have returned significant copper and gold values.*

The principal exploration targets on the Kinaskan Lake property are high-grade, gold and silver bearing quartz veins occurring peripheral to Early Jurassic intrusive rocks that are associated with copper-gold mineralization. Exploration work by previous operators in conjunction with the 2002 field program has identified and developed a number of targets to the stage which in the opinion of the authors demonstrates the character of the property is of sufficient merit to justify further exploration programs be carried out.

The program recommended consists of two phases. A Phase I phase estimated to cost $200,000 which consists of a pre-field and field component. The pre-field work should consist of the thorough compilation of the millions of dollars of previous work into a GIS database and consideration of remote sensing work. The field work which covers work intended to be completed in the spring-summer of 2003 includes soil sampling along constructed grids, geological mapping, prospecting, rock sampling and hand trenching over the Gordon, QC Area, Horn East , Tuk and Trevor Peak areas. It also includes a contingent Phase II phase estimated to cost $500,000 which consists of continued geological follow up, an IP survey at Horn East and 1500 metres of diamond drill testing of the Upper Gordon, Horn East and Trevor Peak targets.

Phase I Program

The recommended Phase I program (Contingent upon further targets that may be developed by the compilation and possible remote sensing phase) is as follows:

a) Gordon Target

Extend the 2002 contour soil lines and establish new ones to cover the area at least as far to the southeast as the gold in silt anomalies. This is an area located approximately 2.0 to 2.5 km. southeast of the Upper Gordon showing where Teck obtained anomalous silt samples with up to 345 ppb gold and 1.55 ppm silver in 1988. Geological mapping and prospecting are also to be carried out over this area. Consideration should be given to detailed structural interpretation at the Gordon Vein to determine the validity of previous and possible future drilling.

b) QC west grid

Geological mapping, prospecting, rock sampling and hand trenching to follow up on a number of anomalous rock samples (3200 ppb gold, 104.8 ppm silver; 15,500 ppb gold, 11.0 ppm silver) collected from the QC porphyry copper west grid area in 1991.

c) Horn East

Follow up 2002 soil anomalies and extend grid where required, more detailed prospecting and sampling upstream to explain silt anomalies. Work area to the west near Horn to follow up such things as the previous 2 oz/t Au float sample.

d) Trevor Peak

Preliminary exploration work similar to the 2002 field work at Horn East and Gordons should be undertaken in the area of Trevor Peak to determine whether drilling is warranted in the Phase II program and to evaluate the thoroughness of the earlier work.

e) Tuk

No work was completed in the Tuk area during the 2002 field season and as such further prospecting and rock sampling is warranted in the region of A8 where anomalous gold values were obtained during a government survey in 1996. Similar work is also recommended along the western portion of the claim where gold mineralization comparable to that reported for the adjacent Castle showing may exist.

Phase I Budget

1. Prefield:			
Project planning, compilation, remote sensing			$25,000
2. Field			
a) Personnel			
Senior Geologist	40 days @ $450/day		$18,000
Project Geologist	40 days @ $375/day		$15,000
Prospector	40 days @ $350/day		$14,000
2 Assistants	80 days @ $300/day		$24,000
			$71,000
b) Transport			
Truck	40 days @$75/day		$ 3,000
Helicopter	25 hours @$1,000/hr		$25,000
c) Camp	200 mandays @ $130/manday		$26,700
d) Assays and geochemistry			
Soil samples	1000 @$20/sample		$20,000
Rock samples	400 @$25/sample		$10,000
3. Post Field			
Preparation of final report, demobalization			$10,000
		Sub total	$190,700
		Contingency	$ 9,300
		Total	**$200,000**

Phase II Program

a) Upper Gordon

Contingent upon sufficiently encouraging results in Phase I soil sampling and prospecting a follow-up program of additional soil sampling, hand trenching and 500 meters of drilling is proposed. This work could include the earlier proposals as made by Mehner, 2002 in his qualifying report and/or new targets developed in the area.

b) Trevor Peak

As originally proposed by Mehner,2002 and contingent upon work in the Phase I program three diamond drill holes totalling 500 meters to test the Ferro, Toon and Flin showings. Follow up testing of gold soil anomalies at the east end of Trevor Peak will include prospecting, rock sampling and hand trenching. Similar type work is also proposed along the trend of the main gossans (Toon, Ferro, Flon, Flin) on the south side of Trevor Peak.

c) Horn East

As proposed by Mehner, 2002 ten line kilometers of ground magnetometer and IP geophysical surveys to cover a 1500 meter by 700 meter area which contains a >60 ppb gold in soil anomaly in the Horn East area is recommended. Favorable targets will be followed up with trenching and/or drilling (500 metres).

Phase II Budget

1. Prefield:			
Project planning, maps, reports, mobilization			$ 5,000
2. Field			
a) Personnel			
Senior Geologist	30 days @ $450/day		$ 13,500
Project Geologist	30 days @ $375/day		$ 11,250
Prospector	30 days @ $350/day		$ 10,500
2 Assistants	60 days @ $300/day		$ 18,000
			$ 53,250
b) Transport			
Truck	30 days @$75/day		$ 2,250
Helicopter	40 hours @ $1,000/hr		$ 40,000
c) Camp	200 mandays @ $130/manday		$ 26,700
d) Assays and geochemistry			
Soil samples	500 @$20/sample		$ 10,000
Rock samples	400 @$25/sample		$ 10,000
e) Geophysics 10 line km magnetometer and IP			$ 17,000
f) Drilling 1500 meters; NQ core			$275,000
3. Preparation of final report, demobalization			$ 10,000
		Sub total	$449,200
		Contingency	$ 51,800
		Total	**$500,000**

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Appendix I Statement of Qualifications

To Accompany Kinaskan Lake Property Assessment Report, British Columbia, Canada, dated April 1/2003. I, Adam Travis, B.Sc., of 3579 Lansbury Court, Westbank, British Columbia, Canada, V4T 1C5 do hereby certify that:

- I am a consulting geologist with an office at 3579 Lansbury Court, Westbank, B.C., V4T 1C5.
- I graduated from the University of British Columbia in 1990 and was awarded a B.Sc. in Geology.
- I have practiced my geological profession since 1986 in many parts of Canada, the United States, Mexico and Africa.
- I was present and supervised all aspects of work on the Kinaskan Lake property contained within this report.
- I have gathered my information for this report from government publications, internal company memos, geological field notes and data that are believed to be reliable and accurate.
- Based on company reports and information, an expenditure of $ 75,000.00 appears accurate for the 2002 work on the Kinaskan Lake property.
- I hereby grant my permission for Royal County Minerals and Viceroy Resources Ltd. to use this Geological Report for whatever purposes it wants, subject to the disclosures set out in this Certificate.

Signed in Vancouver, British Columbia this 3rd day of April, 2003.

Signed ____________________
Travis, B.Sc.

Appendix II   Statement of Expenditures

Field Labour (August 19- September 3, 2002)

Adam Travis, Senior Geologist - $450/day x 16 days	$ 7,200.00
Jill Moore, Project Geologist - $ 375/day x 16 days	$ 6,700.00
Don Coolidge, Prospector - $350/day x 16 days	$ 5,500.00
Jan Tindal, Geological Assistant - $300/day x 16 days	$ 4,900.00
Total Labour:	$ 24,300.00

Geochemical Analysis (Acme Labs)

138 rock samples @ $25/rock	$3,450.00
4 overlimit fire assays @ $10/ sample	$40.00
496 soil samples @ $20/ sample	$ 9,920.00
Sample Shipment Bandstra Trucking	500.00
Total Geochemical Analysis:	$13,910.00

Camp Costs

64 mandays total @ $130/ manday (all inclusive)	$ 8,320.00
Communication	$500.00
Total Camp Costs	$8,820.00

Transportation

Mobilization (apportioned with other projects)	$ 4,500.00
Helicopter	$ 9,120.00
Truck Rental (16 days @ $75/day)	$ 1,200.00
Demobilization (apportioned with other projects)	$ 4,500.00
Total Transportation:	$19,320.00

Office and Reporting

Adam Travis, report preparation (6.5 days @ $450/day)	$ 2,925.00
GeoSim Services, drafting, computer, figures	$ 5,225.00
Report copying, plotting, printing, etc.	$ 500.00
Total Office and Reporting	$ 8,425.00

Total Expenditures	$75,000.00

Table 5 Summary of expenditures by category.

Appendix III Rock Sample Descriptions

The rock sampling program comprised of 75 grab and 60 float chip samples. The sample locations and descriptions are identified in Table 6 below.

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
126651	D.C.	08/31/02	Horn East	426336	6397643	Float	Qtz-carbonate vein.	Silt stone clasts tr Cpy
126652	D.C.	08/31/02	Horn East	426618	6397614	Grab	Tuff	3-4% f.g. diss Cpy, malichite and azurite. Pervaisive sericite, parallel 1mm veinlets, cross cutting qtz/carb veinlets. 3x2m exposure in talus. Located on South bank of creek.
126653	D.C.	08/31/02	Horn East	426605	6397621	Float	Vein	3-5% coarse Cpy, Qtz-carb silstone breccia vein.
126654	D.C.	08/31/02	Horn East	426566	6397702	Float	Vein	5-10% f.g clusted Py Vein with silstone breccia frag, 1-2mm stock work qtz veining.
126655	D.C.	09/01/02	Horn East	426499	6397428	Grab	Breccia	grab over 1 m subcrop, qtz-carb brx,in talus bank tr cpyas small blebs, sst rip-up clasts, dolomitic rind
126656	D.C.	09/01/02	Horn East	426492	6397417	Chip	Alt.Diorite.	0.4 m chip, 10 m upstream from 655, hematite staining, subcrop in steep talus bank, altered diorite contact, 1-2% v.f.g diss py
126657	D.C.	09/01/02	Horn East	426493	6397424	Float	qtz vein	8 cmx 5 cm x 4 cm float, strong manganese oxide, rusty orange, semi-massive cpy
126658	D.C.	09/01/02	Copper Side	426423	6397342	Grab	Vein	select sample over 0.08 cm cpy in qtz-carb brx
126659	D.C.	09/01/02	Copper Side	426423	6397341	Chip	Graphitic Mudstone	0.3 m footwall graphitic zone in mudstone (?) with f.g pyrite
126660	D.C.	09/01/02	Copper Side	426423	6397342	Chip	Shear	0.15 m chip across 10-15% cpy breccia zone, hangingwall to shear
126661	D.C.	09/01/02	Copper Side	426423	6397342	Chip	Shear	0.75 m chip in hangingwall of shear zone in rusty dolomitic gouge, 1-2% cpy
126662	D.C.	09/01/02	Copper Side	426423	6397341	Grab	Vein?	talus boulder, strong manganese, massive cpy
126663	D.C. & A.T.	09/02/02	Second Honeymoon	426386	6399225	Float	Qtz-Carb Vein	0.3 m x 0.4 x 0.4 m float, semi-massive galena at selvages, overall 3-5% PbS, frothy, vuggy
126664	D.C. & A.T.	09/02/02	Second Honeymoon	426415	6399290	Grab	Diorite	qtz-carb veined diorite with 1% Cpy
126665	D.C. & A.T.	09/02/02	NW Cirque	425486	6398787	Float	Qtz Vein	30 cm x 30 cm qta veined intrusive- qtz vein with 1% f.g diss. Cpy
126666	D.C. & A.T.	09/02/02	NW Cirque	425526	6398769	Float	Qtz Vein	1 m x 0.5 m, with tr-1% PbS, locally 3% PbS
126667	D.C. & A.T.	09/02/02	NW Cirque	424963	6398417	Grab	Diorite	carb altered diorite, 50 degree shears, tr PbS, Cpy
126668	D.C. & A.T.	09/02/02	NW Cirque	424963	6398417	Grab	Diorite	as 126668 but with 5% ZnS
126669	D.C. & A.T.	09/02/02	NW Cirque	424895	6398234	Grab	Diorite	rusty goss.shear on cliff face, sample from fw where carb veined and 5% Py
417151	D.C.	08/29/02	Horn East	427083	6398904	1m chip	feldspar porph	2% f.g. diss Py; south bank above small side creek.
417152	D.C.	08/29/02	Horn East	427247	6398923	0.25m chip	Alt. Tuff	1-2% f.g. diss Py-qtz carb alt; taken in creek flow.
417153	D.C.	08/29/02	Horn East	427377	6398848	0.03 chip	qtz/carb vein	064/68 SE. Hosted in large basalt bluff
417154	D.C.	08/29/02	Horn East	427371	6398851	float	diorite	1-2% diss Cpy, malichite, manganese
417155	A.T.	08/31/02	Horn East	426749	6397680	float	qtz/carb vein	tr cpy in qtz.carb vein in Fe carb zone
417156	A.T.	08/31/02	Horn East	426774	6397601	grab	qtz/carb vein	tr cpy in qtz.carb vein in Fe carb zone
417157	J.M.	09/02/02	Horn East	426668	6399007	Float	Siltstone	light coloured, highly silicifiied sitlstone, approximately 2% disseminated pyrite and 1% disseminated chalcopyrite.
417158	A.T.	09/01/02	Second Honeymoon	426816	6398861	Grab	Diorite	Small diorite sill, fabric obliterated by silicification, trends 260/60NW, underlain by graphitic quartz veined argillites, sample taken over 10 m area of sill.
417159	J.M.	09/01/02	Horn East	426641	6398927	Grab	Diorite	Small exposure of silicifiied, pyritized diorite. 5-10% pyrite.Occurs as a sill within siltstones.
417160	J.M.	09/01/02	Horn East	426623	6398919	Grab	Diorite	Pyritic and silicified diorite. Approximately 1% chalcopyrite, 3-5% pyrite, occasional blebs of barite in subcrop float.

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
417161	A.T.	09/01/02	Second Honeymoon	426492	6398928	Grab	Diorite	30-50 cm silicified lenses, 3% pyrite.
417162	A.T.	09/01/02	South Gold Creek	426251	6397186	Float	Barite	Well rounded 20 cm barite boulder, chlorite, trace chalcopyrite, trace sphalerite?,
417163	A.T.	09/01/02	South Gold Creek	426307	6397234	Float	Diorite	Highly sulfidized, 5-7%pyrite, trace chalcopyrite, ankerite, possible volcanic? ,
417164	A.T.	09/01/02	South Gold Creek	426313	6397231	Float	Diorite	Similiar to 417163, more siliceous and quartz veined, trace chalcopyrite, pyrite 1-3%.
417165	A.T.	09/01/02	South Gold Creek	426374	6397295	Float	Argillite	Brecciated, quartz-carbonate veined, fragments approximately 40% of the rock, trace chalcopyrite and sphalerite.
417166	J.M.	08/31/02	Horn East	426192	6397512	Float	Vein	Fault gouge with 1% finely disseminated pyrite, quartz-eye augens, chloritized matrix.
417167	J.M.	09/01/02	Horn East	426592	6398934	Grab	Diorite	Pyritic diorite with <1% chalcopyrite, 5% pyrite and blebs of pyrite. Variable quartz carbonate stockwork veining. Moderate ankerite-dolomite alteration.
417168	J.M.	09/01/02	Horn East	426467	6398927	Grab	Quartz Vein	10-4cm in width, strikes 205/86 NW. Strong blebs of chalcopyritie on vein selvages. 1% disseminated pyrite.
417169	J.M.	09/02/02	Horn East	426978	6398618	Grab	Quartz Vein	Quartz carbonate vein at base of creek. <1% pyrite, strong ankerite-dolomite alteratiooon. Minor brecciation and lamination of veins.
417170	J.M.	09/01/02	Horn East	426467	6398924	Chip	Diorite	50cm chip sample on the hanging wall of sample 417168. Approximately 1% chalcopyrite.
417171	J.M.	09/01/02	Horn East	426428	6398911	Grab	Diorite	Pyritized diorite, approximately 5% disseminated pyrite,weak carbonate-quartz veinlets, gossanous area runs for 20 m down creek.
417172	J.M.	09/01/02	Horn East	426417	6398914	Grab	Quartz Vein	Approximately 5% pyrite and trace chalcopyrite. Strong iron-carbonate alteration.
417173	J.M.	09/01/02	Horn East	426417	6398915	Grab	Quartz Vein	Very siliceous and strongly pyritic quartz vein, strong stockwork veining with approximately 5-10% pyrite.
417174	J.M.	09/01/02	Horn East	426366	6398786	Grab	Diorite	Silicified and carbonated diorite. Pyrite up to 2%. Tr. chalcopyrite.
417175	J.M.	09/02/02	Horn East	427050	6398571	Grab	Diorite	small diorite intrusive, weak quartz veining on selvages, proximal to smalll shear and carbonate unit. Weakly pyritic, subcrop from gossaned hillside.
417176	J.M.	09/02/02	Horn East	426392	6398512	Grab	Diorite	Chloritized diorite in contact with sediments. Moderate quartz veining and carbonate alteration.
417177	J.M.	09/02/02	Horn East	426384	6398512	Grab	Diorite	Chloritized diorite, in conatct with sediments. Moderate barite. Chalcopyrite precipates proximal to barite crystals. Approximately 1% chalcopyrite.
417401	A.T.	08/21/02	Gordons Creek	421265	6406415	Grab	Andesite	Quartz-carbonate veinlet approx. 0.5 cm in width, coarse rusty blebs of pyrite on selvages, on fault striking 340 and near horizontal
417402	A.T.	08/21/02	Gordons Creek	421280	6406416	Grab	Andesite	20 m wide shear zone,grab across 10 m, fine specks of hematite and or sx?, otherwise unaltered
417403	A.T.	08/22/02	Jans Creek	421131	6405814	Float	Volcanic	Quartz-carbonate ankeritic float with trace chalcopyrite, pyrite disseminated, vuggy and brecciated textures
417404	A.T.	08/22/02	Jans Creek	421073	6405883	Grab	Monzonite	1 m wide dyke, trends 80 deg, near vertical, silicified, quartz stockwork, trace pyrite
417405	A.T.	08/22/02	Jans Creek	421027	6405932	Grab	Monzonite	Stockwork sheeted veinlets, 80 deg trend, near vertical, flanked by finer grained feldspar porphyry
417406	A.T.	08/22/02	Ridge	421730	6406127	Grab	Granite	strongly potassic alteration, quartz veined, subcrop zone, less then 1 m in width
417407	A.T.	08/22/02	Ridge	421864	6406169	Grab	Andesite	quartz carbonate veined near western contact of sheared carbonate altered zone

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
417408	A.T.	08/22/02	Ridge	421905	6406176	Grab	Monzonite	light tan to yellow, silicified, fine veinlets, pitted after remnant sulfides, near center of carbonate altered shear zone in 417407
417409	A.T.	08/22/02	Ridge	421923	6406167	Grab	Monzonite	subcrop, quartz veined, sericite altered, minor potassic alteration, fine stockwork veinlets, approximately 4 m thick, 110 deg trending sill
417410	A.T.	08/22/02	Ridge	421945	6406149	Grab	Felsite	2 m width, intensely folded/flow banded? fine quartz veinlets and trace sulfides,
417411	A.T.	08/24/02	Top Showing	420946	6406072	Rock	Diorite	old sample site 117, chloritized carbonate veined, diorite, with cpy associated with veinlets
417412	A.T.	08/29/02	Top Showing	420939	6406088	Rock	Diorite	intense qtz-carbonate veins, chloritized, <5% pyrite, 1-3% aspy, trace cpy
417413	A.T.	08/24/02	Top Showing	420918	6406106	Rock	Vein	20 cm barite-carbonate vein, 5 cm near massive galena band, trench sluffed, no orientation possible
417414	A.T.	08/25/02	Gordons Showing	422269	6405230	Grab	Monzonite	carbonate vein, ankerite, trace pyrite
417415	A.T.	08/25/02	Gordons Showing	422115	6405062	Grab	Diorite	60 degree trending, 0.5 wide meter shear, cutting chloritized diorite, shear noted for 50 meters, heavily oxidized, hematized with trace pyrite
417417	A.T.	08/29/02	Second Honeymoon	426573	6399110	Grab	Diorite	Carbonated pyritic, 3-5%, 8 m gulley
417418	A.T.	08/29/02	Second Honeymoon	426530	6399056	Grab	Quartz Vein	quartz sericite vein, intrusive, 1% sphalerite, galena
417419	A.T.	08/29/02	Second Honeymoon	426519	6399050	Grab	Quartz Vein	sampled over 1 m width, some semi-massive galena bands to 2 cm, trends 104/66NW
417420	A.T.	08/29/02	Second Honeymoon	426511	6399052	Grab	Quartz Vein	across 3 m stock work vein, dioritic
417421	A.T.	08/29/02	Second Honeymoon	426494	6399070	Grab	Quartz Vein	across 1 m, 120/70NE trending vein, shear zone in diorite, 1-3% sphalerite, zone exposed for 7 meters, trends towards sample 417417
417422	A.T.	08/29/02	Second Honeymoon	426472	6399102	Float	Quartz Vein	float near head of 30 degree trending grassy gully, probable fault, 65 cm quartz boulder, trace too 1% sphalerite, tr pyrite, vuggy texture
417423	A.T.	08/29/02	Second Honeymoon	426340	6399145	Grab	Volcanics	carbonated and brecciated, 140 trending shear zone, trace pyrite
417424	A.T.	08/29/02	Second Honeymoon	426331	6399087	Grab	Quartz Vein	carbonate vein, 15/75NW trending vein, 20 cm wide, up to 5% sphalerite, vein continuous for 10 m strike
417425	A.T.	08/29/02	Second Honeymoon	426346	6399065	Float	Quartz Vein	1-3% chalcopyrite, 3-5% sphalerite, 10 cm thick by 25 cm long float vein.
417426	A.T.	08/29/02	Second Honeymoon	426347	6398978	Grab	Diorite	potassic altered dioritic intrusive
417427	A.T.	08/29/02	Second Honeymoon	426380	6399008	Grab	Andesite	manganese stained, carbonated, veined, massive sphalerite bands up to 2 cm
417428	A.T.	08/29/02	Second Honeymoon	426392	6398993	Float	Barite Vein	trace to 1% galena
417429	A.T.	08/29/02	Second Honeymoon	426395	6398992	Grab	Barite Vein	quartz +/- carbonate barite vein,
417430	A.T.	08/29/02	Second Honeymoon	426495	6399037	Grab	Barite Vein	quartz +/- carbonate barite vein,
417431	A.T.	08/29/02	Second Honeymoon	426561	6399092	Grab	Quartz Vein	trace to 1% galena
417432	A.T.	08/29/02	Second Honeymoon	426631	6399186	Grab	Quartz Vein	chalcopyrite and sphalerite bands, 345/75 west, 10 to 20 cm in width, vuggy texture, vein trace for 20 meters, north into creek and south into grass.
417433	A.T.	08/29/02	Second Honeymoon	426627	6399179	Grab	Quartz Vein	same as 417432, trends 110/88 south, zones may intersect near creak or be folded?
417434	A.T.	08/29/02	Second Honeymoon	426492	6399051	Grab	Barite Vein	5-7% galena and sphalerite
417435	A.T.	08/29/02	Second Honeymoon	426219	6398894	Grab	Diorite	potassic altered dioritic intrusive
417436	A.T.	08/29/02	Second Honeymoon	426193	6398732	Grab	Iron Carbonate	ankerite-dolomite altered rock, diorite?, 3-5% chalcopyrite
417437	A.T.	08/29/02	Second Honeymoon	426189	6398724	Grab	Diorite?	propolyitized, malachite on fractures, 1-3% chalcopyrite

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
417438	A.T.	08/29/02	Second Honeymoon	426163	6398720	Grab	Quartz Porphyry	Carbonate and quartz veined, trace sphalerite
417439	A.T.	08/29/02	Second Honeymoon	426289	6398781	Grab	Diorite	Carbonate and chloritized altered, fine grained disseminated chalcopyrite
417440	A.T.	08/30/02	Second Honeymoon	426110	6398882	Float	Quartz Vein	Quartz carbonate vein float, trace chalcopyrite, north side of snowfield in an east west gully-possible fault related zone
417441	A.T.	08/30/02	Second Honeymoon	426063	6398893	Grab	Diorite	8-10 m wide dike, 80 degree trending, silicified and quartz veined, weak potassic alteration
417442	A.T.	08/30/02	Second Honeymoon	426114	6398869	Grab	Quartz Vein	Quartz carbonate vein, brecciated texture, vuggy, cryptocrystalline quartz, strong barite replacement texture.
417443	A.T.	08/30/02	Second Honeymoon	426114	6398867	Grab	Andesite	Strongly silicified and quartz vein, sericitized, veins up to 10 cm in width with 1-2 cm bands of massive sphalerite, 1-3% chalcopyrite veins
417444	A.T.	08/30/02	Second Honeymoon	426143	6398844	Grab	Diorite	Quartz veined, trace chalcopyrite, stockworked, boulders to 50 cm, subcrop.
417445	A.T.	08/30/02	Second Honeymoon	425890	6398711	Grab	Diorite	Silicified diorite, 5 m subcrop, disseminated pyrite 3-5%, trace galena and sphalerite, 60 degree trending structure.
417446	A.T.	08/30/02	Second Honeymoon	425922	6398645	Grab	Diorite	Quartz-carbonate altered subcrop, trace chalcopyrite
417447	A.T.	08/30/02	Second Honeymoon	425893	6398586	Float	Diorite	Quartz veined, talus float near trace of 110 trending gully. Trace pyrite.
417448	A.T.	08/30/02	Second Honeymoon	425880	6398445	Float	Barite	Talus pieces to 30x30cm in size. Up to 1% galena.
417449	A.T.	08/30/02	Second Honeymoon	426474	6398827	Grab	Tuff	Ankerite, trace chalcopyrite, malachite and 1-3% disseminated fine grained pyrite.
417450	A.T.	08/30/02	Second Honeymoon	426531	6398842	Grab	Diorite	Gossanous, 3-5% fine grained pyrite, trace chalcopyrite, malachite oxidation, 3 m wide zone.
621301	J.M. & D.C.	08/20/02	Gordons Creek-Team	420697	6406174	Chip	Andesite	coarse cubic py-ga-sph-cpy with fe-carbonate, zonation to selvages of cpy
621302	J.M. & D.C.	08/22/02	Gordon Creek	420773	6406206	Rock	Andesite	creek float boulder, pb, py,sph, cpy, brecciated boulder, strong qtz-fe-carbonate alteration
621303	J.M. & D.C.	08/22/02	Gordon Creek	420766	6406206	Rock	Andesite	massive pyrite and qtz-fe-carbonate alteration
621304	J.M.& D.C.	08/21/02	Gordons Creek	420800	6406238	Chip	Tuff	qtz veinlet, minor malachite and pyrite, 2 cm width, 135/070 NE
621305	J.M.& D.C.	08/21/02	Gordons Creek	420791	6406232	Chip	Tuff	small sx veinlet, pyrite, chalcopyrite, limonite, hematite
621306	J.M. & D.C.	08/21/02	Gordons Creek	421990	6406651	Chip	Tuff	small pyrite, chalcopyrite, hematite, limonite veinlets, perpendicular structure to 621306
621307	J.M. & D.C.	08/21/02	Gordons Creek	422012	6406629	Rock	Tuff	small sx veinlet, pyrite, chalcopyrite, limonite, hematite
621308	J.M. & D.C.	08/21/02	Jans Creek	421738	6405815	Float	Quaternary Alluvium	Massive sphalerite with 1%py, cpy and 10% silica, strongly oxidized and gossaned
621309	J.M. & D.C.	08/21/02	Jans Creek	421792	6405830	Float	Quaternary Alluvium	Black siliceous sediment with stockwork quartz veining, pyrite, pyrrhotite, ankerite, dolomite
621319	J.M. & D.C.	08/21/02	South of Gordons	421945	6405377	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock
621320	J.M. & D.C.	08/21/02	South of Gordons	421950	6405335	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock
621321	D.C.	08/22/02	Jans Creek	421094	6405570	Rock	Quaternary Alluvium	Massive quartz with disseminated pyrite-chalcopyrite, approximately 15%
621322	J.M. & D.C.	08/21/02	South of Gordons	422821	6404858	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock
621323	J.M. & D.C.	08/21/02	South of Gordons	422822	6404859	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
621324	J.M. & D.C.	08/22/02	South of Gordons	422869	6404857	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock
621325	J.M. & D.C.	08/21/02	South of Gordons	422959	6404964	Chip	Andesite	quartz-chalcopyrite-sphalerite-pyrite-galena vein hosted in andesitic rock
621326	J.M. & D.C.	08/23/02	Main Showing	420913	6406129	Chip	Andesite	Crystalline, strong ankerite-dolomite alteration, strong aspy, py,cpy, ga sulfide blebs, trends 110 and subvertical
621327	J.M. & D.C.	08/23/02	Main Showing	420913	6406128	Chip	Andesite	Crystalline, strong ankerite-dolomite alteration, strong aspy, py,cpy, ga sulfide blebs, trends 110 and subvertical
621328	D.C.	08/24/02	Main Showing	420906	6406195	chip	Diorite	vein
621329	D.C.	08/24/02	Main Showing	420906	6406195	chip	Diorite	.5m, hw qtz-carb alt
621330	D.C.	08/24/02	Main Showing	420907	6406196	chip	Diorite	0.5m FW to qtz-carb vein
621331	D.C.	08/24/02	Main Showing	420908	6406196	chip	Diorite	.25m FeCO-Barite alt
621332	D.C.	08/24/02	Main Showing	420904	6406177	soil	Diorite	0.05m sulphidic gouge
621333	J.M.	08/29/02	Horn East	427359	6398927	Chip	Diorite	over 0.30 mContact shear between diorite and sediment, moderate contact foliation and weak hematization.
621334	J.M.	08/29/02	Horn East	427427	6398927	Chip	Chert	over 0.50 m, fine grained grey black chert, fine grained pyrite, disseminated throughout. Strikes 130 and continuous for 150 m.
621335	J.M.	08/29/02	Horn East	427474	6398901	Chip	Chert	over 0.50 m, fine grained grey black chert, fine grained pyrite, disseminated throughout. Strikes 130 and continuous for 150 m.
621336	J.M.	08/29/02	Horn East	427529	6398862	Grab	Diorite	Quartz carbonate veining in Jqd, fine grained pyrite, approximately 3%.
621337	J.M.	08/29/02	Horn East	427830	6398816	Grab	Vein	Quartz carbonate veining in greywacke-siltstone, weakly disseminated pyrite.
621338	J.M.	08/30/02	Second Honeymoon	425889	6398545	Grab	Chert	approximately 1% galena in barite vein, coarse grained, up to 3 mm galena crystals, chalcopyritized diorite proximal,
621339	J.M.	08/30/02	Second Honeymoon	426356	6398166	Grab	Mudstone	fine grained mudstone with barite, weak chalcopyrite approximately 1% in the barite crystals.
621340	J.M.	08/31/02	Second Honeymoon	426637	6399084	Grab	Vein	Quartz breccia veins within mudstone, 1-2 cm mudstone fragments in the breccia. 1-4% galena, moderate hematization, strike 140/88SW
621341	J.M.	08/31/02	Second Honeymoon	426570	6399058	Grab	Vein	Quartz breccia veins, strikes 090/78SW. Occurs on major fault structure. 1-4% galena disseminated.
621342	J.M.	08/31/02	Second Honeymoon	426566	6399042	Grab	Breccia	Quartz-diorite breccia. Extremely silicified with 2 mm stockwork veins. 3-5% pyrite, <1% galena, occurs on 180 degree fault.
621343	J.M.	08/31/02	Second Honeymoon	426573	6399019	Grab	Diorite	Quartz-diorite moderately silicified with 1% galena and weak carbonate alteration, strong chloritic alteration.
621344	J.M.	08/31/02	Second Honeymoon	426587	6399013	Grab	Diorite	Quartz diorite with 1-3% pyrite in blebs, with disseminated 1-3% chalcopyrite, 1-3% galena blebs and 1% sphalerite.
621345	J.M.	08/31/02	Second Honeymoon	426633	6399055	Grab	Diorite	Quartz diorite outcrop, gine grained galena occuring in stockwork veining and on vein selvages. Minor disseminated chalcopyrite, approximately 1%
621346	J.M.	08/31/02	Second Honeymoon	426626	6399040	Grab	Diorite	Quartz diorite veining, approximately 40cm in width, continuous for 6m, Galena occurs on vein selvages and in main shear. Strike 080/86NW.
621347	J.M.	08/31/02	Horn East	426672	6397755	Float	Andesite	Carbonaceous andesite-siltstone, strong fe-carbonate alteration, occuring in blebs, 1% pyrite and chalcopyrite.
621348	J.M.	08/31/02	Horn East	426610	6397706	Float	Vein	Quartz vein, white, fine grained quartz with weak chlorite on selvages and 1% disseminated pyrite.
621349	J.M.	08/31/02	Horn East	426566	6397690	Grab	Diorite	Hematized diorite with <3% chalcopyrite and weak pyrite. Subcrop

SAMPLE_ID	SAMPLER	DATE	LOCATION	EASTING	NORTHING	TYPE	UNIT	DESCRIPTIO
								crosses stream and strikes visibly for 20 m, maybe more.
621350	J.M.	08/31/02	Horn East	426472	6397638	Grab	Chert	Subcrop of stock work veined mudstone and chert. Fine stockwork veins have 1% disseminated pyrite.

Table 6 Rock sample locations and descriptions.

Appendix IV Rock and Soil Sample Assays

A 26 element analysis package was used. All assays from the program are listed below in Tables 7 to 9. A complete assay table can be found in Appendix IV.

Table 7 Rock sample analysis of Au, Ag, Cu, Pb, Zn, and As.

SAMPLE_ID	Au ppb	Au g/t *	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
126651	13.5		103.1	15.1	45	0.1	20
126652	2.9		5825.2	5.5	31	2.0	2
126653	9.1		13415.3	543.4	36366	23.7	21
126654	5.6		134.2	164.8	718	0.7	33
126655	2.0		49.2	5.5	84	0.1	2
126656	11.5		99.1	16.1	59	0.5	40
126657	11.7		97143.1	24.4	117	46.1	237
126658	16.5		85106.5	26.0	60	48.0	136
126659	6.8		1899.7	18.8	38	4.6	34
126660	16.4		29825.9	19.7	46	18.3	108
126661	3.5		2494.6	4.6	28	1.7	92
126662	15.9		88627.1	27.6	47	52.1	470
126663	233.2		346.6	44255.1	99999	18.8	1
126664	25.4		395.1	115.5	405	0.5	3
126665	3.5		591.8	165.0	505	0.6	-1
126666	3.0		39.6	4080.5	36	1.2	2
126667	1.0		221.5	2043.9	159	1.4	5
126668	2.6		80.2	57.4	36884	2.3	9
126669	11.5		10.5	13.1	136	0.2	39
417151	2.4		64.8	11.7	165	0.2	5
417152	0.3		10.8	5.6	55	0.1	5
417153	1.8		1363.4	5.9	45	0.7	4
417154	1.1		7409.9	4.6	21	0.7	3
417155	7.4		546.9	5.4	131	0.6	10
417156	3.1		33.9	4.9	28	0.2	5
417157	8.1		210.0	100.5	65	0.9	7
417158	1.3		8.0	6.2	38	0.1	44
417159	7.7		119.4	17.5	89	0.4	19
417160	5.2		155.7	3.7	49	0.2	4
417161	38.8		197.5	17.0	14	1.3	60
417162	4.1		1848.7	10.7	25969	2.5	3
417163	150.5		394.8	16.7	59	0.7	185
417164	35.3		530.0	4.5	42	0.3	63
417165	9.1		576.8	19.8	4887	1.5	18
417166	16.7		36.8	2.2	32	0.1	-1
417167	23.6		100.4	12.0	72	0.4	18
417168	139.3		5751.3	4.8	7	4.0	5
417169	166.2		23.7	3.4	12	0.2	110
417170	48.9		3287.6	3.2	41	1.4	1
417171	12.2		113.1	7.8	110	0.1	12
417172	6.0		15.9	5.3	14	0.1	5
417173	7.1		80.2	3.8	7	0.4	1
417174	2.5		839.3	1.5	14	0.5	-1
417175	88.7		18.5	4.9	9	0.2	210
417176	9.0		220.4	1.9	103	0.1	1
417177	4.8		1158.6	2.6	22	0.3	2
417401	2.0		14.0	-3.0	95	0.3	8
417402	0.6		92.0	-3.0	69	0.7	7

SAMPLE_ID	Au ppb	Au g/t *	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
417403	13.9		14.0	-3.0	39	0.5	16
417404	5.8		24.0	-3.0	7	-0.3	9
417405	-0.2		6.0	3.0	24	-0.3	4
417406	4.3		195.0	-3.0	14	0.7	11
417407	5.0		16.0	-3.0	41	-0.3	7
417408	468.9		460.0	21675.0	376	216.0	8878
417409	2.5		24.0	71.0	16	0.9	29
417410	2.5		18.0	128.0	15	1.2	49
417411	3.6		5461.0	-3.0	54	4.6	5
417412	875.1		2348.0	690.0	553	85.0	79370
417413	4024.7	7.10	6394.0	21287.0	88019	219.0	1065
417414	11.0		73.0	157.0	192	0.9	165
417415	10.0		61.0	39.0	1230	0.7	1064
417417	119.0		2543.6	194.6	1487	2.7	27
417418	35.0		74.9	5485.5	13788	2.7	7
417419	222.9		368.2	47372.6	69228	48.2	3
417420	81.6		78.7	8952.0	4681	5.6	12
417421	35.7		80.4	504.6	45933	5.4	3
417422	17.9		23.7	153.1	9100	1.8	8
417423	3.7		6.4	37.1	172	0.1	3
417424	47.4		645.3	27.8	45714	1.9	9
417425	396.8		5785.3	67.9	59852	6.6	3
417426	12.1		30.9	16.3	439	-0.1	2
417427	103.7		1324.8	40.7	99999	11.2	6
417428	121.6		25.5	4727.0	1353	2.2	4
417429	947.7		221.5	33459.0	48532	16.0	4
417430	14.0		87.3	2646.3	485	0.6	20
417431	76.0		303.1	4652.1	49890	8.7	8
417432	192.2		21594.6	100.6	3011	22.9	7
417433	51.6		1177.9	54.7	7337	2.2	7
417434	333.1		228.1	28801.7	48224	16.3	7
417435	17.0		26.5	111.2	1169	0.2	4
417436	363.9		8485.3	14.8	31	2.4	-1
417437	122.9		14258.3	5.6	42	5.5	1
417438	9.8		116.2	6.7	10	0.1	1
417439	610.0		5947.5	3.5	134	2.5	4
417440	13.0		25.3	3.9	11	-0.1	3
417441	5.6		426.7	4.5	8	0.2	5
417442	168.9		550.8	6.3	343	0.5	3
417443	321.2		7081.9	73.3	91336	10.6	6
417444	22.0		269.3	3.3	321	0.4	30
417445	165.5		54.8	29.3	325	1.2	102
417446	13.8		3657.7	4.0	73	1.5	4
417447	4.7		14.8	14.8	51	0.2	6
417448	34.9		125.6	10944.3	10858	8.5	7
417449	26.8		3761.1	54.7	141	0.8	7
417450	15.9		224.5	31.7	191	0.6	6
621301	9704.1	14.90	4102.0	19610.0	67740	197.4	5890
621302	2356.0	2.37	5273.0	992.0	99999	15.0	1016
621303	5254.8	8.37	1432.0	194.0	1065	30.8	3613
621304	32.0		553.0	201.0	111	2.1	19
621305	381.0		203.0	32.0	50	1.0	172
621306	1230.9	1.38	6694.0	190.0	551	14.7	945
621307	35.0		324.0	7.0	65	0.6	19
621308	50.0		170.0	2378.0	99999	33.0	1609
621309	31.6		9.0	13.0	217	0.7	23

SAMPLE_ID	Au ppb	Au g/t *	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
621319	1621.2	2.24	16193.0	2737.0	58648	214.6	73540
621320	314.0		78.0	631.0	26927	32.8	29272
621321	2709.4	2.97	14176.0	19.0	201	30.3	154
621322	50.0		1477.0	5.0	93	2.6	119
621323	18.0		4051.0	8.0	26	3.8	23
621324	11.7		7898.0	3.0	37	4.8	42
621325	17.2		107.0	9.0	42	0.3	22
621326	336.8		180.0	55.0	195	4.0	4791
621327	1040.8	1.30	1558.0	519.0	640	28.7	11186
621328	7911.4	11.60	4665.0	649.0	149	136.3	26452
621329	61.0		25.0	9.0	37	1.0	50
621330	25.0		85.0	39.0	133	3.3	300
621331	859.0		336.0	170.0	905	24.0	187
621332			2830.3	4479.4	11871	265.1	73827
621333	1.5		21.4	6.1	56	-0.1	4
621334	2.1		21.8	26.1	16	2.0	17
621335	2.4		31.5	13.3	33	1.4	14
621336	5.0		6.8	4.4	32	0.4	19
621337	2.8		4.5	4.5	27	0.1	5
621338	5.5		24.7	5118.7	18389	5.3	2
621339	12.3		223.1	6.7	64	0.2	1
621340	44.7		117.5	31158.7	1973	112.2	11
621341	29.5		60.8	10871.1	7740	5.3	22
621342	24.9		47.6	1207.5	3111	1.9	1156
621343	174.3		91.7	11964.1	8314	6.3	7
621344	33.0		526.3	97.6	1306	3.0	99
621345	33.3		70.9	6775.9	28929	3.6	4
621346	55.8		120.3	15533.5	10321	12.1	4
621347	6.0		217.7	58.6	114	0.1	3
621348	6953.1	7.42	14.3	15.3	49	1.9	36
621349	9.0		2219.6	9.8	22	1.0	2
621350	8.0		51.9	16.4	30	0.3	6

* Fire Assay

Table 8 Soil sample analysis of Au, Ag, Cu, Pb, Zn, and As Horn East area

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
3000E 2700N	1.2		98.9	11.3	69	0.2	19.2
3000E 2725N	1.4		80.2	7.5	65	0.2	12.8
3000E 2750N	1.7		76.6	8.6	91	0.1	13.8
3000E 2775N	3.5		57.2	8.9	90	0.1	12.9
3000E 2800N	2.2		77.6	8.1	73	0.2	14.1
3000E 2825N	3.2		72.0	7.8	82	0.1	13.2
3000E 2850N	2.0		31.4	4.7	84	0.1	8.0
3000E 2875N	0.9		42.8	8.3	111	0.2	9.5
3000E 2900N	4.4		88.2	9.0	84	0.3	11.4
3000E 2925N	5.0		54.6	6.7	107	0.2	7.3
3000E 2950N	4.0		35.7	7.9	224	0.1	11.2
3000E 2975N	-9.0		-9.0	-9.0	-9	-9.0	-9.0
3000E 3000N	33.5		167.4	159.1	326	1.0	37.0
3000E 3025N	3.4		48.0	44.9	306	0.3	17.7
3000E 3050N	9.1		71.9	9.2	141	0.5	13.6
3000E 3075N	1.7		43.7	9.9	170	0.3	17.5
3000E 3100N	231.6		64.9	24.9	120	0.4	38.9
3000E 3125N	2.5		23.1	12.0	59	0.2	13.0
3000E 3150N	5.0		37.6	7.6	147	0.2	12.5
3000E 3175N	5.2		79.4	16.9	164	0.4	18.8
3000E 3200N	224.1		87.4	21.1	91	1.0	24.4
3000E 3225N	5.9		103.7	11.6	46	0.3	8.1
3000E 3250N	19.4		126.2	12.8	103	0.4	16.8
3000E 3275N	8.6		99.4	61.7	459	0.5	48.5
3000E 3300N	23.6		60.4	19.6	139	0.8	36.2
3000E 3325N	12.4		128.1	23.9	178	0.9	32.8
3000E 3350N	18.4		61.9	24.8	74	0.6	20.3
3000E 3375N	42.6		77.6	121.4	138	1.0	29.6
3000E 3400N	7.7		111.1	11.8	114	0.3	11.0
3000E 3425N	139.2		78.2	31.7	74	1.0	35.2
3000E 3450N	32.1		75.8	14.0	78	0.5	42.0
3000E 3475N	208.0		57.6	53.6	97	0.3	76.5
3000E 3500N	471.5		76.8	42.5	84	0.4	71.8
3100E 2700N	5.4		33.2	10.1	89	0.1	12.9
3100E 2725N	3.2		26.9	8.9	60	0.2	11.7
3100E 2750N	0.8		31.5	8.9	70	0.2	8.7
3100E 2775N	4.3		44.1	7.3	105	0.1	10.0
3100E 2800N	1.0		55.0	8.8	95	0.1	12.6
3100E 2825N	2.2		52.9	8.5	89	0.1	12.8
3100E 2850N	1.5		59.5	7.8	98	0.1	12.2
3100E 2875N	2.3		53.2	8.3	87	0.1	13.1
3100E 2900N	5.4		41.1	7.3	96	0.1	10.3
3100E 2925N	8.6		100.9	10.4	71	0.1	16.4
3100E 2950N	6.3		84.4	22.7	74	0.7	47.7
3100E 2975N	5.8		37.4	7.4	89	0.1	8.2
3100E 3000N	2.9		23.7	10.1	124	0.3	8.3
3100E 3025N	82.3		46.1	33.4	92	0.2	43.6
3100E 3050N	3.2		42.6	10.0	109	0.1	10.9
3100E 3075N	0.6		18.3	8.8	70	0.1	8.5
3100E 3100N	5.5		18.3	6.4	81	0.2	4.9
3100E 3125N	4.1		139.1	6.5	66	0.1	10.7
3100E 3150N	10.7		119.1	11.5	125	0.4	11.7
3100E 3175N	6.5		48.4	99.6	337	0.4	127.6
3100E 3200N	5.5		91.2	11.1	108	0.6	61.0
3100E 3225N	7.7		106.0	12.4	116	0.6	14.9
3100E 3250N	45.9		81.3	12.8	74	0.5	15.0

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
3100E 3275N	4.8		81.9	13.8	88	0.3	13.3
3100E 3300N	13.7		66.1	15.7	104	0.5	16.0
3100E 3325N	12.3		88.2	14.5	81	0.7	16.4
3100E 3350N	7.3		136.1	21.0	97	1.0	16.8
3100E 3375N	11.0		86.6	18.3	112	1.4	22.3
3100E 3400N	6.4		99.1	23.5	255	0.7	30.5
3100E 3425N	6.4		86.1	28.9	201	0.6	32.5
3100E 3450N	5.6		47.7	17.3	157	0.2	21.6
3100E 3475N	6.9		44.4	15.9	155	0.1	17.1
3100E 3500N	8.1		66.7	34.2	145	0.8	54.7
3200E 2700N	7.8		221.8	31.0	106	2.8	62.0
3200E 2725N	8.7		121.2	56.1	248	1.8	153.6
3200E 2750N	1.5		50.4	19.9	153	0.2	20.9
3200E 2775N	2.6		38.3	7.9	116	0.1	13.0
3200E 2800N	3.4		26.6	8.5	78	0.2	8.3
3200E 2825N	2.3		67.7	16.8	145	0.1	45.1
3200E 2850N	3.6		46.8	5.2	106	0.1	8.2
3200E 2875N	0.9		68.0	7.6	81	0.1	19.2
3200E 2900N	5.5		23.2	6.4	83	-0.1	7.7
3200E 2925N	1.2		40.2	6.8	76	0.1	11.5
3200E 2950N	3.2		90.0	7.0	77	-0.1	11.9
3200E 2975N	3.0		84.1	10.0	91	0.3	14.8
3200E 3000N	5.5		101.3	16.5	91	0.4	17.1
3200E 3025N	7.2		108.7	13.1	77	0.7	15.0
3200E 3050N	2.4		84.9	19.9	90	0.5	17.4
3200E 3075N	3.5		76.5	9.9	119	0.6	14.0
3200E 3100N	7.6		114.5	7.2	93	0.5	19.8
3200E 3125N	5.6		67.7	12.3	116	0.2	17.5
3200E 3150N	3.3		68.3	8.0	134	0.2	11.2
3200E 3175N	6.4		26.0	19.2	112	0.1	12.0
3200E 3200N	1.3		33.0	16.0	207	0.1	19.5
3200E 3225N	4.6		30.4	15.6	338	0.2	17.6
3200E 3250N	7.7		30.9	18.1	146	0.1	22.5
3200E 3275N	796.4		38.1	16.4	98	0.2	37.7
3200E 3300N	3.5		45.8	22.3	114	0.2	73.6
3200E 3325N	4.0		39.9	15.2	75	0.2	12.0
3200E 3350N	3.7		31.7	3.3	68	0.1	5.1
3200E 3375N	2.4		31.5	8.5	92	0.1	13.1
3200E 3400N	2.8		34.8	11.7	105	0.1	15.3
3200E 3425N	127.7		16.4	8.1	40	0.2	44.3
3200E 3450N	51.6		22.4	13.7	63	0.1	105.7
3200E 3475N	5.9		29.8	8.6	66	0.1	12.2
3200E 3500N	8.9		89.3	23.5	204	0.7	34.8
3300E 2700N	4.5		91.2	10.4	108	0.2	15.5
3300E 2725N	4.4		110.3	8.3	105	0.2	15.2
3300E 2750N	6.3		106.9	9.9	106	0.3	19.0
3300E 2775N	6.6		112.6	10.8	114	0.3	23.0
3300E 2800N	7.8		226.9	17.5	129	0.8	38.4
3300E 2825N	3.4		36.9	15.2	90	0.2	22.8
3300E 2850N	0.5		27.7	8.8	103	0.6	11.8
3300E 2875N	4.5		68.2	8.3	72	0.2	11.5
3300E 2900N	4.9		47.4	6.3	72	0.2	9.5
3300E 2925N	2.0		65.6	6.5	65	0.2	13.3
3300E 2950N	3.3		36.5	3.8	108	0.1	6.0
3300E 2975N	2.8		33.0	7.3	98	0.2	10.6
3300E 3000N	2.2		41.3	7.0	78	0.1	13.7
3300E 3025N	3.5		48.9	6.8	60	0.1	15.1
3300E 3050N	4.3		82.7	11.6	82	0.3	21.8
3300E 3075N	11.4		90.8	24.5	31	2.1	34.9
3300E 3100N	3.6		84.6	18.3	124	0.4	15.8

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
3300E 3125N	3.8		85.9	20.4	66	0.7	26.4
3300E 3150N	1.7		58.5	10.2	55	0.1	5.5
3300E 3175N	7.6		70.9	12.0	98	0.3	31.6
3300E 3200N	3.8		38.4	12.3	99	0.4	6.9
3300E 3225N	0.7		51.2	5.2	103	0.3	4.9
3300E 3250N	2.9		40.8	5.1	84	0.3	6.1
3300E 3275N	1.0		19.9	9.9	128	0.1	11.8
3300E 3300N	3.0		34.8	11.9	68	0.1	13.3
3300E 3325N	-0.5		32.9	5.9	66	0.1	6.4
3300E 3350N	2.1		68.4	7.7	120	0.1	12.1
3300E 3375N	1.8		30.6	9.3	111	0.2	8.2
3300E 3400N	3.6		51.2	4.8	112	0.1	7.2
3300E 3425N	0.9		33.2	13.2	144	0.2	6.0
3300E 3450N	2.2		14.9	26.3	78	0.4	7.5
3300E 3475N	5.0		25.0	6.4	106	0.1	7.4
3300E 3500N	1.4		24.8	11.2	71	0.1	14.0
3400E 2700N	2.4		86.7	11.4	127	0.4	15.8
3400E 2725N	2.9		95.1	11.1	112	0.5	17.9
3400E 2750N	1.6		72.0	10.4	79	0.1	18.0
3400E 2775N	6.4		27.4	7.6	100	0.1	7.9
3400E 2800N	-0.5		27.6	8.4	71	0.1	11.6
3400E 2825N	0.8		162.9	11.8	105	0.6	22.8
3400E 2850N	-0.5		41.0	9.1	63	0.4	10.5
3400E 2875N	1.7		43.6	6.2	118	0.2	12.6
3400E 2900N	2.4		133.6	13.3	129	0.4	32.4
3400E 2925N	0.8		90.7	11.2	89	0.3	22.2
3400E 2950N	-0.5		117.2	15.5	108	0.6	37.9
3400E 2975N	-0.5		56.1	12.1	204	0.1	26.8
3400E 3000N	6.7		149.4	25.9	129	1.5	39.6
3400E 3025N	-0.5		41.7	6.8	69	0.1	15.5
3400E 3050N	3.7		29.2	6.0	88	0.3	10.2
3400E 3075N	4.9		117.4	12.7	75	0.2	23.8
3400E 3100N	12.4		108.4	43.7	103	1.8	52.4
3400E 3125N	35.1		85.4	17.5	106	0.5	23.2
3400E 3150N	1.0		127.7	30.6	104	0.8	40.8
3400E 3175N	9.3		51.1	7.9	59	0.2	11.8
3400E 3200N	4.2		22.5	9.7	92	0.1	14.7
3400E 3225N	1.9		26.2	10.6	68	0.1	8.9
3400E 3250N	9.7		27.5	7.1	56	-0.1	9.0
3400E 3275N	3.2		20.1	7.3	85	-0.1	9.4
3400E 3300N	3.0		25.4	3.4	60	0.1	7.3
3400E 3325N	5.1		34.1	8.6	75	0.5	10.3
3400E 3350N	6.1		41.1	14.4	52	0.4	24.0
3400E 3375N	1.3		23.5	13.3	71	0.1	16.9
3400E 3400N	14.6		94.4	19.7	152	0.8	49.0
3400E 3425N	2.9		75.9	41.4	84	0.9	44.2
3400E 3450N	2.1		33.8	35.4	155	0.3	17.8
3400E 3475N	9.6		71.5	18.5	123	0.6	21.2
3400E 3500N	4.0		47.1	34.4	142	0.5	16.1
3500E 2700N	1.9		44.0	7.9	103	0.1	10.8
3500E 2725N	6.1		26.7	8.3	76	0.1	9.9
3500E 2750N	2.7		24.6	5.3	135	0.2	8.7
3500E 2775N	14.2		37.0	9.2	96	0.1	10.9
3500E 2800N	5.1		54.7	12.5	120	0.1	16.4
3500E 2825N	5.0		84.9	12.9	139	0.3	17.9
3500E 2850N	7.3		68.3	12.9	158	0.3	16.9
3500E 2875N	3.8		79.4	12.2	144	0.3	17.0
3500E 2900N	5.9		52.7	8.8	127	0.2	13.1
3500E 2925N	6.9		34.7	7.0	109	0.2	10.0
3500E 2950N	8.0		35.8	7.3	137	0.1	9.3

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
3500E 2975N	1.8		45.4	7.1	132	0.2	10.9
3500E 3000N	4.2		20.2	4.9	95	0.1	8.0
3500E 3025N	7.2		69.0	5.5	136	0.1	10.2
3500E 3050N	4.8		139.1	12.6	98	0.4	23.3
3500E 3075N	2.4		76.5	12.4	108	0.5	28.7
3500E 3100N	3.0		17.5	4.9	67	0.1	7.4
3500E 3125N	4.5		37.3	17.0	132	0.1	19.8
3500E 3150N	4.2		103.4	14.9	56	0.2	17.5
3500E 3175N	4.0		51.7	5.0	91	0.2	10.6
3500E 3200N	4.5		31.2	10.4	71	0.1	13.3
3500E 3225N	10.5		56.7	11.0	75	0.3	14.2
3500E 3250N	1.6		36.1	6.8	71	0.1	9.9
3500E 3275N	5.3		45.8	18.3	76	0.1	20.7
3500E 3300N	2.5		60.5	4.9	85	0.1	9.6
3500E 3325N	2.7		37.8	4.8	68	0.1	8.3
3500E 3350N	2.0		33.7	9.6	113	0.1	13.7
3500E 3375N	-0.5		50.0	14.8	87	0.1	24.0
3500E 3400N	4.5		205.8	12.2	70	0.6	13.8
3500E 3425N	3.3		20.9	5.9	70	0.1	10.1
3500E 3450N	5.6		36.3	7.0	98	0.1	8.4
3500E 3475N	13.9		22.8	7.7	108	0.1	7.5
3500E 3500N	3.6		23.9	5.5	98	0.1	7.0
3500E 3525N	3.2		15.7	7.0	51	0.3	7.3
3500E 3550N	2.5		57.3	6.4	112	0.2	10.4
3500E 3575N	4.4		31.7	7.6	109	0.1	9.4
3500E 3600N	5.5		21.5	4.2	78	0.2	6.8
3500E 3625N	3.6		31.3	6.7	87	0.1	10.0
3500E 3650N	5.8		119.2	11.6	75	1.4	17.7
3500E 3675N	5.3		83.7	12.0	127	0.6	15.2
3500E 3700N	6.0		35.2	28.2	52	0.3	18.3
3500E 3725N	6.1		43.0	13.2	78	0.2	8.7
3500E 3750N	20.7		31.0	8.2	79	0.1	6.7
3500E 3775N	8.2		19.5	7.1	72	0.2	12.7
3500E 3800N	3.1		16.4	7.1	100	0.1	7.8
3500E 3825N	5.7		54.8	10.5	194	0.3	14.0
3500E 3850N	-0.5		26.5	9.4	67	-0.1	8.6
3500E 3875N	2.4		27.6	6.0	98	0.1	7.1
3500E 3900N	2.2		46.5	7.4	97	0.1	10.2
3500E 3925N	12.2		117.7	44.2	73	2.2	74.8
3500E 3950N	2.0		83.5	11.1	121	0.2	12.1
3500E 3975N	5.6		81.9	16.7	144	1.2	22.3
3500E 4000N	2.7		46.3	15.8	128	0.3	12.8
3500E 4025N	2.9		65.2	17.8	111	0.3	19.1
3500E 4050N	2.6		67.0	9.2	54	0.5	10.7
3500E 4075N	3.6		27.1	9.8	100	0.1	6.7
3500E 4100N	2.7		25.9	15.7	114	0.2	8.6
3500E 4125N	2.0		29.8	6.2	77	0.3	6.8
3500E 4150N	5.5		71.1	13.4	151	0.2	30.0
3500E 4175N	5.0		96.8	12.3	111	0.2	25.4
3500E 4200N	78.2		450.7	21.8	44	1.9	45.8
3500E 4225N	12.2		94.0	22.5	52	0.8	19.3
3500E 4250N	18.0		207.4	28.7	94	0.2	113.5
3500E 4275N	11.7		197.8	14.4	261	0.1	28.9
3500E 4300N	44.5		438.3	24.0	96	0.7	59.6
3500E 4325N	20.8		242.3	21.7	57	0.2	92.3
3500E 4350N	27.5		1003.5	12.7	79	0.4	10.2
3500E 4375N	10.7		118.3	35.5	1352	0.2	20.6
3500E 4400N	28.9		87.1	72.8	92	0.9	284.8
3500E 4425N	24.9		453.6	911.8	5962	2.4	96.0
3500E 4450N	6.5		66.7	100.0	260	0.5	74.1

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
3500E 4475N	5.0		45.4	12.6	135	0.1	10.1
3500E 4500N	37.6		232.3	64.7	295	0.3	28.3
3500E 4525N	3.0		27.5	83.5	207	0.5	41.2
3500E 4550N	7.6		64.9	19.2	241	0.2	11.3
3500E 4575N	10.8		104.2	28.0	384	0.2	20.4
3500E 4600N	5.4		95.6	21.1	380	0.2	15.7
3500E 4625N	4.7		39.6	16.4	198	0.4	18.8
3600E 2700N	7.4		103.6	23.6	165	0.3	40.5
3600E 2725N	3.8		147.7	17.8	117	1.0	30.5
3600E 2750N	4.5		16.2	4.1	68	0.1	6.6
3600E 2775N	5.6		19.1	6.4	70	0.1	9.7
3600E 2800N	3.9		38.8	5.3	81	0.1	7.8
3600E 2825N	4.7		44.8	9.8	109	0.4	10.5
3600E 2850N	3.8		72.1	11.6	117	0.1	13.6
3600E 2875N	3.0		68.4	11.5	123	0.1	15.0
3600E 2900N	2.9		142.3	10.1	73	0.3	21.3
3600E 2925N	4.7		62.5	8.8	126	0.2	14.4
3600E 2950N	3.9		107.4	11.2	94	0.3	21.0
3600E 2975N	16.8		40.3	12.1	210	0.1	22.7
3600E 3000N	3.6		28.7	6.2	93	0.3	8.1
3600E 3025N	1.0		64.6	18.2	127	0.2	17.2
3600E 3050N	8.5		58.5	10.7	103	0.3	15.4
3600E 3075N	3.6		62.6	10.2	111	0.2	14.2
3600E 3100N	10.7		96.4	13.0	67	0.6	41.1
3600E 3125N	4.5		117.0	20.1	127	0.9	24.8
3600E 3150N	4.0		82.2	14.8	85	0.4	21.4
3600E 3175N	11.4		87.3	16.3	92	0.7	21.8
3600E 3200N	2.9		38.1	11.0	111	0.1	11.6
3600E 3225N	4.4		18.2	7.6	78	0.2	9.2
3600E 3250N	4.8		23.9	5.5	90	0.1	8.2
3600E 3275N	7.8		79.6	8.9	144	0.2	11.6
3600E 3300N	9.0		80.6	12.8	99	0.1	14.4
3600E 3325N	3.3		44.5	6.4	69	0.3	12.8
3600E 3350N	5.2		16.6	8.0	127	0.1	13.1
3600E 3375N	5.8		46.5	14.5	110	0.2	14.6
3600E 3400N	6.6		59.3	16.1	130	0.3	12.8
3600E 3425N	2.9		59.8	15.5	84	0.2	24.5
3600E 3450N	3.0		24.5	5.4	81	0.1	9.4
3600E 3475N	5.7		19.5	5.7	90	0.2	6.8
3600E 3500N	3.0		19.9	9.7	119	0.1	13.5
jts056	1.7		36.8	10.9	131	0.1	10.9
jts057	7.0		56.8	8.4	87	0.1	24.3
jts058	136.4		181.2	16.4	57	1.2	2026.0
jts059	2.9		24.8	2.5	18	0.1	16.2
jts060	8.7		36.1	5.9	71	0.1	8.9
jts061	9.0		207.8	11.8	240	0.2	31.7
jts062	3.7		34.1	17.1	125	0.2	17.6
jts063	2.7		30.7	25.8	176	0.2	21.4
jts064	-0.5		81.2	11.0	167	0.2	15.5
jts065	5.3		130.9	18.1	224	0.4	29.6
jts066	3.9		77.7	13.5	185	0.1	17.4
jts067	3.9		22.2	8.7	62	0.1	6.5
jts068	8.0		194.0	9.7	203	0.6	45.4
jts069	8.3		33.0	13.7	132	0.1	16.4
jts070	2.9		74.6	15.1	262	0.1	39.0
jts071	13.6		94.4	18.4	87	0.2	17.5
jts072	6.6		59.6	14.7	175	0.6	16.4
jts073	9.8		112.7	30.3	196	1.1	46.8
jts074	5.7		74.1	13.8	207	1.0	25.1
jts075	1.1		49.8	20.3	236	0.3	21.7

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
jts076	6.5		105.7	29.6	192	1.6	37.0
jts077	7.6		33.0	11.0	132	0.4	11.3
jts078	4.0		29.3	8.3	131	0.3	8.4
jts079	2.4		42.8	26.3	193	0.4	14.8
jts080	3.0		145.3	9.2	224	0.4	15.5
jts081	3.5		50.8	13.7	132	0.4	16.2
jts082	0.9		39.8	14.5	125	0.2	11.6
jts083	4.5		56.9	16.2	189	0.7	21.6
jts084	2.6		47.7	19.0	64	0.2	31.2
jts085	4.2		28.1	9.4	103	0.2	12.6
jts086	2.7		27.3	8.1	150	0.3	14.1
jts087	3.4		24.3	4.8	90	0.2	7.1
jts088	1.4		97.9	16.9	89	0.3	38.1
jts089	1.6		44.7	13.5	152	0.2	11.4
jts090	-0.5		21.4	6.5	113	0.3	7.4
jts091	6.5		237.0	14.2	88	0.7	21.1
jts092	-0.5		33.9	10.3	192	0.1	10.5
jts093	1.0		25.7	11.9	84	0.2	10.3
jts094	0.9		19.5	9.0	95	0.3	9.8

Table 9 Soil sample analysis of Au, Ag, Cu, Pb, Zn, and As Gordon Vein area

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
621310	60.6		97.5	182.0	674	2.0	525.4
621311	12.9		103.7	113.7	601	1.6	203.0
621312	13.0		64.8	40.9	395	1.5	70.5
621313	11.8		84.7	208.8	935	3.1	722.8
621314	12.8		142.1	272.5	1078	5.7	446.0
621315	40.3		274.1	798.0	3922	17.1	682.1
621316	506.6		1727.0	3132.5	27476	266.9	10363.4
621317	134.5		402.8	2510.2	9364	20.3	2300.0
621318	99.3		283.2	524.6	2062	117.7	1638.5
1250N, 1000E	2.7		71.4	21.3	130	0.1	16.5
1250N, 1025E	4.5		96.6	34.5	146	0.1	27.1
1250N, 1050E	19.0		74.5	61.1	185	0.1	41.0
1250N, 1075E	7.4		51.9	38.1	128	0.1	24.7
1250N, 1100E	57.9		72.2	40.7	129	0.2	32.0
1250N, 1125E	20.7		78.6	51.6	125	0.2	35.3
1250N, 1150E	17.1		39.8	46.3	125	0.2	24.6
1250N, 1175E	15.8		377.9	72.5	129	1.5	29.4
1250N, 1200E	39.5		186.3	52.2	108	0.8	27.7
1250N, 1225E	13.3		51.1	46.4	118	0.3	23.6
1250N, 1250E	20.1		141.7	70.5	426	0.5	51.8
1250N, 975E	8.1		93.1	31.4	132	0.2	22.5
125S, 00W	0.0		0.0	0.0	0	0.0	0.0
125S, 100W	26.6		47.0	23.0	106	0.2	65.3
125S, 125W	8.6		62.8	24.2	292	0.6	39.8
125S, 150W	12.1		54.8	31.5	222	0.8	65.0
125S, 25W	20.1		103.5	26.7	141	0.7	25.9
125S, 50W	10.6		69.2	25.3	167	0.4	22.7
125S, 75W	10.9		71.1	28.8	186	0.7	45.7
1300N, 1000E	8.6		56.7	61.8	153	0.2	36.3
1300N, 1025E	20.1		56.5	73.1	127	0.2	36.4
1300N, 1050E	6.1		81.2	44.5	139	0.1	34.7
1300N, 1075E	11.9		47.2	40.3	149	0.1	28.2
1300N, 1100E	24.0		93.6	76.8	174	0.6	33.2
1300N, 1125E	4.7		37.1	46.7	124	0.2	26.1
1300N, 1150E	112.4		83.8	43.5	96	0.5	23.7
1300N, 1175E	8.1		167.6	33.9	156	0.3	25.4
1300N, 1200E	63.5		140.5	87.3	1068	0.6	76.5
1300N, 1225E	24.4		272.5	46.3	461	1.1	55.2
1300N, 1250E	24.4		272.5	46.3	461	1.1	55.2
1300N, 925E	8.8		445.5	18.0	99	0.2	24.0
1300N, 950E	4.6		80.4	20.9	127	0.1	20.0
1300N, 975E	20.7		151.9	78.2	165	0.2	32.8
1350N, 1000E	8.5		107.6	48.9	192	0.2	32.6
1350N, 1025E	8.9		63.7	57.5	163	0.3	42.0
1350N, 1050E	17.3		111.3	66.8	139	0.4	52.8
1350N, 1075E	13.6		68.7	51.5	126	0.3	38.2
1350N, 1100E	5.4		89.1	69.2	214	0.2	40.5
1350N, 1125E	12.5		80.4	59.1	132	0.4	35.5
1350N, 1150E	8.5		65.2	32.6	202	0.3	29.7

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
1350N, 1175E	14.1		318.1	27.8	134	0.8	26.2
1350N, 1200E	11.8		75.2	51.1	171	0.4	30.4
1350N, 1225E	36.1		134.3	110.2	749	1.3	66.6
1350N, 1250E	17.3		90.9	68.2	212	0.6	33.9
1350N, 900E	6.5		69.4	17.1	129	0.1	17.6
1350N, 925E	28.9		57.9	51.5	131	0.3	31.8
1350N, 950E	31.3		65.0	72.9	119	0.4	50.7
1350N, 975E	19.7		75.4	74.6	111	0.2	41.2
1400N, 1000E	8.1		78.7	66.7	183	0.3	40.2
1400N, 1025E	12.2		79.2	79.2	170	0.2	46.3
1400N, 1050E	6.3		82.8	18.3	149	0.2	16.3
1400N, 1075E	6.9		70.9	30.0	185	0.1	23.0
1400N, 1100E	14.3		80.6	26.9	180	0.1	22.6
1400N, 1125E	49.3		110.4	32.7	211	0.6	25.7
1400N, 1150E	297.8		223.7	43.4	1321	1.8	44.1
1400N, 1175E	15.9		51.8	23.2	288	0.2	18.4
1400N, 1200E	8.4		49.9	31.2	360	0.2	23.7
1400N, 1225E	23.3		90.5	42.0	809	0.7	33.0
1400N, 1250E	70.0		90.3	41.8	667	0.5	48.0
1400N, 900E	8.3		97.8	47.3	113	0.3	30.7
1400N, 925E	15.2		105.0	67.3	158	0.3	44.8
1400N, 950E	45.0		96.2	30.4	112	0.5	20.0
1400N, 975E	9.5		85.4	43.6	172	0.3	30.5
1450N, 1000E	19.4		58.0	55.5	126	0.4	34.8
1450N, 1025E	16.3		79.7	30.3	128	0.3	21.9
1450N, 1050E	20.1		99.2	35.2	180	0.4	24.3
1450N, 1075E	23.3		97.3	102.7	300	2.2	44.4
1450N, 1100E	44.0		89.7	58.4	758	0.4	36.8
1450N, 1125E	9.9		69.7	44.9	802	0.5	31.0
1450N, 1150E	13.5		59.3	39.3	669	0.4	22.1
1450N, 1175E	6.6		69.4	13.3	187	0.4	12.4
1450N, 1200E	7.2		91.7	33.8	338	0.5	22.7
1450N, 1225E	16.1		147.6	33.6	422	0.5	24.6
1450N, 1250E	5.0		74.6	40.8	343	0.3	32.0
1500N, 1000E	10.0		67.8	25.7	213	0.3	20.1
1500N, 900E	249.8		519.3	185.7	637	6.0	1289.8
1500N, 925E	13.2		204.0	35.0	144	0.2	29.5
1500N, 950E	22.7		217.4	34.1	291	0.5	34.4
1500N, 975E	26.3		140.8	33.9	317	0.4	26.5
200S, 00W	0.0		0.0	0.0	0	0.0	0.0
200S, 100W	7.0		68.7	23.5	140	0.7	17.9
200S, 125W	6.6		75.6	30.2	148	0.5	19.5
200S, 150W	6.8		107.4	43.0	159	1.1	19.7
200S, 25W	3.4		94.6	35.0	100	0.5	28.0
200S, 50W	5.1		68.4	22.1	124	0.6	17.7
200S, 75W	29.7		101.9	26.3	126	0.5	22.7
225S 100W	51.0		118.9	22.8	98	0.6	15.7
225S 125W	14.7		177.3	33.2	90	1.3	25.2
225S 150W	20.2		289.5	28.6	98	1.3	26.9
225S 25W	16.0		98.7	37.2	216	4.6	19.7
225S 50W	9.8		155.8	25.9	97	1.2	19.1
225S 75W	12.0		193.7	19.1	80	1.2	14.1
250S, 00W	0.0		0.0	0.0	0	0.0	0.0

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
250S, 100W	5.6		153.4	26.4	107	0.6	17.8
250S, 125W	11.6		252.7	20.8	101	0.4	18.2
250S, 150W	7.5		183.4	24.0	110	0.2	18.4
250S, 25W	18.7		176.9	90.3	132	4.1	21.3
250S, 50W	6.7		184.6	43.4	134	1.1	19.0
250S, 75W	6.1		212.4	30.2	121	0.5	16.0
JTS001	13.7		238.5	39.3	136	1.2	28.0
JTS002	14.6		119.8	87.0	399	1.5	71.7
JTS003	6.0		95.8	103.3	560	0.6	60.4
JTS004	6.7		124.6	88.0	247	1.0	51.0
JTS005	11.0		113.8	27.4	137	0.4	30.6
JTS006	9.9		115.7	22.7	134	0.3	25.4
JTS007	7.3		247.4	27.2	115	0.5	29.1
JTS008	8.3		71.4	14.6	110	0.4	11.7
JTS009	9.0		130.2	26.5	148	0.6	17.1
JTS010	14.4		104.8	24.8	122	0.5	21.0
JTS011	21.9		164.1	62.1	381	0.9	30.5
JTS012	8.5		113.1	25.4	116	0.2	23.5
JTS013	13.7		166.4	60.1	250	0.6	32.5
JTS014	8.9		273.2	46.1	157	0.4	23.4
JTS015	11.2		181.1	40.1	185	0.4	35.4
JTS016	6.5		105.2	21.7	110	0.1	15.0
JTS017	8.7		111.3	37.3	154	0.3	26.9
JTS018	12.2		121.7	29.7	120	0.3	28.9
JTS019	9.2		101.8	17.5	113	0.2	19.7
JTS020	5.4		69.2	23.0	133	0.2	22.6
JTS021	4.9		76.9	22.4	91	0.2	17.9
JTS022	9.5		136.3	28.6	118	0.3	21.1
JTS023	7.0		124.5	27.8	150	0.2	21.9
JTS024	6.2		130.9	21.3	122	0.2	19.1
JTS025	10.6		256.4	22.3	143	0.3	20.0
JTS026	35.4		108.3	157.0	907	2.9	249.5
JTS027	34.8		91.9	66.4	341	1.3	90.1
JTS028	55.9		86.9	72.0	267	0.9	54.7
JTS029	15.4		81.1	61.6	254	0.9	58.4
JTS030	24.1		118.5	107.7	659	1.9	255.3
JTS031	16.3		100.5	91.1	530	1.0	115.8
JTS032	15.5		90.0	108.7	312	0.4	89.7
JTS033	50.9		129.8	199.7	506	1.1	132.6
JTS034	35.2		84.8	59.8	292	0.3	118.6
JTS035	22.2		83.8	65.0	242	0.3	77.7
JTS036	43.1		80.0	80.5	343	0.7	54.2
JTS037	24.5		79.6	77.9	238	0.8	80.2
JTS038	15.6		67.5	65.4	315	0.9	148.8
JTS039	9.2		72.0	84.2	752	0.7	180.2
JTS040	12.2		99.3	259.6	1589	3.6	389.9
JTS041	9.0		149.3	47.5	196	0.8	212.0
JTS042	28.0		124.1	57.4	389	2.1	84.7
JTS043	24.7		186.6	135.5	660	1.8	183.9
JTS044	16.7		106.9	72.0	489	3.2	120.3
JTS045	26.7		147.3	232.8	1075	2.3	904.3
JTS046	6.1		89.5	120.5	688	1.7	150.5
JTS047	59.8		157.4	74.5	497	2.7	304.3

Sample_ID	Au ppb	Au g/t*	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm
JTS048	32.2		96.8	203.2	931	4.3	241.4
JTS049	85.1		228.9	355.1	2138	5.7	693.2
JTS050	99.6		376.3	1128.2	6938	15.3	1092.6
JTS055	1341.1	1.63	310.2	243.4	882	32.0	777.0

Appendix V 2002 Acme Lab Certificates

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Keewatin Consultants PROJECT QC-Gordons File # A203433 Page 1

900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Jill Moore

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
SI	1	1	<3	1	<.3	1	<1	<2	.02	<2	<8	<2	<2	2	<.5	<3	<3	<1	.11	<.001	<1	2	<.01	3	<.01	<3	.01	.55	.01	<2	.7
417401	1	14	<3	95	.3	5	15	1532	5.77	8	<8	<2	2	103	.7	<3	3	136	4.55	.403	15	11	2.33	679	.14	<3	2.41	.05	.09	5	2.0
417402	1	92	<3	69	.7	4	11	1692	3.14	7	<8	<2	2	43	<.5	4	<3	67	4.64	.111	7	4	.80	102	.05	4	1.21	.02	.27	2	.6
417403	3	14	<3	39	.5	8	12	1117	3.04	16	<8	<2	<2	93	<.5	5	<3	29	3.75	.042	2	15	1.35	141	.01	3	.28	.03	.19	6	13.9
417404	5	24	<3	7	<.3	3	1	233	.54	9	<8	<2	3	6	<.5	3	<3	1	.15	.007	33	16	.04	44	.01	<3	.20	.08	.08	6	5.8
417405	4	6	3	24	<.3	5	1	313	.81	4	<8	<2	8	18	<.5	<3	<3	1	.64	.007	30	15	.16	195	<.01	<3	.58	.07	.20	5	<.2
417406	3	195	<3	14	.7	2	1	265	.47	11	<8	<2	3	21	<.5	26	<3	1	1.57	.009	5	12	.03	252	<.01	<3	.26	.06	.11	5	4.3
417407	1	16	<3	41	<.3	10	12	1186	3.27	7	<8	<2	<2	54	.5	<3	<3	120	8.40	.100	7	20	.78	44	.05	4	1.05	.04	.21	2	5.0
417408	11	460	21675	376	216.0	2	1	99	3.08	8878	<8	<2	2	11	3.3	57	3	18	.22	.084	3	5	.03	52	<.01	9	.55	.01	.63	<2	468.9
417409	3	24	71	16	.9	3	5	707	.82	29	<8	<2	8	75	<.5	4	<3	2	2.20	.009	25	10	.05	1082	<.01	5	.47	.02	.29	5	2.5
417410	6	18	128	15	1.2	3	4	460	.55	49	<8	<2	4	63	.5	4	<3	1	2.00	.010	12	18	.04	1016	<.01	<3	.18	.09	.05	8	2.5
417411	1	5461	<3	54	4.6	13	7	1993	4.96	5	<8	<2	<2	36	<.5	<3	<3	62	3.05	.132	10	22	.87	155	.01	4	2.24	.03	.36	6	3.6
417412	5	2348	690	553	85.0	21	214	1431	10.19	79370	<8	<2	<2	12	8.6	729	222	11	.09	.028	5	30	.04	31	.01	<3	.38	.01	.18	14	875.1
417413	7	6394	21287	88019	219.0	10	20	35679	8.64	1065	<8	3	<2	67	852.4	136	<3	5	11.16	.002	7	<1	2.16	14	.01	<3	.04	.02	.02	<2	4024.7
417414	2	73	157	192	.9	6	12	1266	3.08	165	<8	<2	<2	41	1.3	<3	<3	31	5.53	.127	9	13	.26	438	<.01	3	.57	.03	.30	3	11.0
417415	1	61	39	1230	.7	7	12	1711	3.91	1064	<8	<2	2	27	19.7	4	<3	58	3.42	.158	8	11	.77	564	<.01	4	1.58	.01	.36	5	10.0
621301	2	4102	19610	67740	197.4	15	26	28530	7.81	5890	<8	9	<2	87	662.9	899	46	3	10.44	.003	3	6	2.46	6	<.01	<3	.05	.02	.01	<2	9704.1
621302	2	5273	992	99999	15.0	2	<1	15397	11.40	1016	<8	4	<2	57	1689.8	121	8	7	9.21	.009	4	<1	2.42	9	.01	<3	.20	.01	.04	<2	2356.0
621303	6	1432	194	1065	30.8	4	6	163	17.34	3613	<8	6	2	2	11.5	337	17	3	.06	.004	1	19	.01	3	<.01	<3	.09	<.01	.05	8	5254.8
621304	6	553	201	111	2.1	8	11	6359	3.49	19	<8	<2	<2	555	.9	4	<3	18	7.72	.045	5	10	.77	122	<.01	3	.43	.01	.18	4	32.0
621305	2	203	32	50	1.0	4	16	1889	3.88	172	<8	<2	<2	68	.6	<3	<3	35	5.27	.126	5	5	.23	30	<.01	<3	.96	.01	.37	2	381.0
621306	15	6694	190	551	14.7	15	55	3553	10.25	945	<8	3	<2	120	6.3	18	35	21	7.13	.020	5	14	.31	5	.01	<3	.38	.01	.08	5	1230.9
621307	1	324	7	65	.6	5	9	2510	2.00	19	<8	<2	<2	155	<.5	<3	<3	36	7.28	.077	8	5	.27	1766	<.01	4	.50	.01	.33	<2	35.0
621308	2	170	2378	99999	33.0	11	19	57779	16.19	1609	<8	<2	<2	15	1949.5	59	3	14	1.28	.007	3	<1	.51	17	<.01	<3	.10	.02	.04	2	50.0
621309	16	9	13	217	.7	5	2	2563	1.69	23	<8	<2	<2	850	1.8	4	4	7	29.60	.015	2	3	.49	223	<.01	<3	.08	<.01	.04	2	31.6
621319	3	16193	2737	58648	214.6	35	59	2952	9.35	73540	<8	4	<2	34	662.4	13696	485	5	2.27	.015	7	40	.20	18	<.01	<3	.26	<.01	.11	<2	1621.2
621320	2	78	631	26927	32.8	26	25	8516	4.91	29272	<8	<2	<2	47	299.7	120	12	9	4.50	.039	9	17	.13	12	<.01	<3	.40	.01	.15	<2	314.0
RE 621320	3	74	629	28109	30.9	25	25	8589	4.90	29077	<8	<2	<2	47	300.4	133	12	8	4.54	.040	9	19	.13	11	<.01	<3	.40	.01	.15	<2	321.0
621321	5	14176	19	201	30.3	9	2	502	2.58	154	<8	4	<2	36	2.0	29	<3	39	1.56	.038	2	36	.43	27	.01	<3	.65	.02	.04	15	2709.4
621322	6	1477	5	93	2.6	47	72	7170	5.25	119	<8	<2	2	40	1.4	4	<3	26	5.52	.146	6	12	1.10	27	<.01	3	.43	.04	.18	3	50.0
621323	6	4051	8	26	3.8	21	12	1206	1.17	23	<8	<2	2	62	<.5	<3	<3	37	7.57	.130	9	14	.10	8	.01	3	.28	.10	.06	<2	18.0
621324	6	7898	3	37	4.8	21	14	1803	2.39	42	<8	<2	<2	58	<.5	<3	<3	137	8.17	.113	10	30	1.03	86	<.01	<3	1.08	.05	.04	<2	11.7
621325	8	107	9	42	.3	18	113	820	10.67	22	<8	<2	3	11	.9	<3	<3	158	.17	.132	40	41	1.43	43	<.01	<3	1.77	.06	.03	<2	17.2
621326	55	180	55	195	4.0	14	31	9485	6.50	4791	<8	<2	<2	97	2.1	10	8	36	13.06	.058	9	6	2.69	28	<.01	<3	.80	.02	.21	<2	336.8
621327	3	1558	519	640	28.7	11	23	21707	7.24	11186	<8	<2	<2	62	6.0	40	22	13	8.22	.061	7	8	1.54	47	<.01	<3	.34	.02	.22	<2	1040.8
STANDARD DS4	6	125	24	141	<.3	34	12	788	2.92	24	<8	<2	4	31	4.7	5	6	73	.59	.086	16	162	.55	138	.10	<3	1.62	.04	.16	3	25.0

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU* IGNITION BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Assay recommend for Au >1000 ppb

DATE RECEIVED: AUG 29 2002 **DATE REPORT MAILED:** Sept 13/02 **SIGNED BY** C. L........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
621328	4	4665	649	149	136.3	79	98	4151	30.24	26452	<8	11	<2	8	.7	282	56	11	.33	.012	1	12	.14	12	<.01	<3	.29	<.01	.07	12	7911.4
621329	1	25	9	37	1.0	2	6	1713	1.18	50	<8	<2	<2	11	.5	<3	<3	14	.98	.041	1	5	.14	20	<.01	3	.40	<.01	.11	<2	61.0
621330	1	85	39	133	3.3	8	19	8489	4.09	300	<8	<2	<2	54	1.3	6	<3	43	4.22	.148	7	11	.43	73	<.01	5	1.17	.01	.33	<2	25.0
621331	1	336	170	905	24.0	7	16	9716	6.73	187	<8	<2	<2	84	15.6	39	<3	18	8.64	.076	4	8	1.63	45	<.01	<3	.34	.01	.27	3	859.0
NO NUMBER	36	1634	2540	1224	55.0	13	56	14723	10.09	13717	<8	9	<2	74	12.0	162	35	9	8.96	.030	6	6	2.19	55	<.01	<3	.14	.01	.13	8	8964.8
STANDARD DS4	7	125	29	143	<.3	35	13	816	3.08	22	20	<2	4	28	5.7	4	<3	76	.52	.092	16	169	.59	146	.09	3	1.69	.04	.15	6	27.5

Sample type: ROCK R150 60C.

Specimen from Main/Team Area (?)

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Keewatin Consultants PROJECT QC-Gordons File # A203433R
900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Jill Moore

SAMPLE#	Au** gm/mt
417413	7.10
621301	14.90
621302	2.37
621303	8.37
621306	1.38
621319	2.24
621321	2.97
RE 621321	2.91
621327	1.30
621328	11.60
NO NUMBER	12.45
STANDARD AU-1	3.47

Specimen from MAIN/TEAM AREA (?) → NO NUMBER

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK PULP
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 17 2002 **DATE REPORT MAILED:** Sept 23/02 **SIGNED BY** C. L... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA YINS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Keewatin Consultants PROJECT QC-Gordons File # A203434 Page 1

900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Jill Moore

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.7	3.1	2.3	38	<.1	5.1	4.3	549	1.81	.5	1.8	<.5	4.7	80	<.1	<.1	.1	41	.60	.094	8	15.2	.52	225	.127	<1	.85	.061	.46	1.8	<.01	2.4	.3	<.05	4
1500N 900E	3.5	519.3	185.7	637	6.0	12.5	21.7	2940	4.80	1289.8	.2	249.8	.7	49	4.4	30.5	1.4	43	.64	.177	12	8.8	.44	476	.012	<1	1.02	.007	.16	.1	.46	12.3	.1	.34	3
1500N 925E	1.8	204.0	35.0	144	.2	34.8	20.7	1571	4.70	29.5	.7	13.2	2.1	21	.5	2.0	.2	80	.48	.107	22	31.0	.99	310	.187	1	2.51	.020	.07	.2	.10	8.7	.1	<.05	9
1500N 950E	1.3	217.4	34.1	291	.5	23.9	19.2	1575	4.70	34.4	.5	22.7	1.7	28	.7	3.4	.3	86	.74	.139	25	22.3	1.24	467	.076	1	2.04	.011	.11	.1	.18	15.4	<.1	<.05	6
1500N 975E	1.3	140.8	33.9	317	.4	48.0	23.4	1668	5.06	26.5	.4	26.3	2.0	37	1.3	3.1	.2	75	.72	.128	18	31.0	1.46	668	.228	2	1.99	.074	.13	.1	.17	12.6	.1	<.05	7
1500N 1000E	1.7	67.8	25.7	213	.3	52.2	26.3	1255	4.88	20.1	.9	10.0	2.7	36	1.0	1.6	.2	88	1.06	.104	23	39.2	1.19	360	.320	1	2.47	.037	.07	.1	.10	8.9	.1	<.05	11
1450N 1000E	2.4	58.0	55.5	126	.4	9.3	12.7	2630	2.84	34.8	.4	19.4	.3	39	.9	2.6	.3	83	1.05	.115	8	17.9	.37	360	.051	1	1.15	.011	.07	.1	.17	6.1	.1	.08	7
1450N 1025E	1.8	79.7	30.3	128	.3	30.8	21.7	1743	4.40	21.9	1.4	16.3	2.0	54	.4	1.4	.2	87	1.75	.107	23	30.6	.69	405	.230	<1	2.87	.026	.05	.1	.09	9.8	.1	.11	13
1450N 1050E	1.8	99.2	35.2	180	.4	25.5	19.2	1793	4.15	24.3	.9	20.1	1.5	45	.7	2.0	.2	73	1.55	.118	22	28.2	.65	540	.179	2	2.47	.024	.07	.1	.19	9.6	.1	.10	10
1450N 1075E	1.6	97.3	102.7	300	2.2	22.0	17.8	2185	4.21	44.4	.6	23.3	1.3	28	1.9	4.7	.2	71	.69	.139	13	16.0	.79	685	.055	2	1.45	.017	.12	.1	.94	12.6	.1	<.05	4
1450N 1100E	2.6	89.7	58.4	758	.4	27.2	23.6	2399	6.32	36.8	.8	44.0	1.7	16	8.7	2.4	.6	109	.23	.150	16	40.3	.62	557	.212	<1	3.29	.017	.25	.1	.06	8.0	.1	<.05	15
1450N 1125E	2.5	69.7	44.9	802	.5	30.5	24.1	2636	5.90	31.0	.6	9.9	2.2	20	10.7	2.2	.4	97	.39	.160	13	36.3	.64	719	.217	1	2.87	.017	.09	.1	.07	6.9	.1	<.05	14
1450N 1150E	3.1	59.3	39.3	669	.4	34.7	23.9	1946	6.03	22.1	.8	13.5	3.8	24	10.0	1.6	.3	105	.32	.131	17	42.4	.69	622	.361	<1	3.52	.023	.07	.2	.06	8.3	.1	.09	16
1450N 1175E	1.5	69.4	13.3	187	.4	39.3	24.0	1274	5.28	12.4	1.2	6.6	4.3	32	5.6	1.1	.1	80	.82	.119	29	35.1	1.09	531	.404	1	3.88	.030	.07	.1	.09	9.9	.1	.06	13
1450N 1200E	3.2	91.7	33.8	338	.5	30.1	21.9	3244	5.28	22.7	.9	7.2	1.5	22	2.6	2.2	.3	83	.56	.122	23	34.3	.66	1437	.167	2	2.77	.015	.09	.1	.06	8.1	.1	.09	12
1450N 1225E	1.7	147.6	33.6	422	.5	24.7	21.9	3534	4.71	24.6	1.0	16.1	1.5	40	5.0	2.6	.3	66	1.16	.128	28	27.0	.64	1233	.176	1	2.57	.016	.13	<.1	.09	9.6	.1	.10	11
1450N 1250E	2.0	74.6	40.8	343	.3	23.2	22.1	3798	4.70	32.0	.6	5.0	1.1	29	2.6	3.6	.2	70	.88	.141	16	25.8	.67	1076	.113	2	2.01	.009	.19	.1	.06	9.1	.1	.08	8
1400N 900E	2.2	97.8	47.3	113	.3	19.5	17.0	1565	4.41	30.7	.5	8.3	.8	21	.3	1.9	.2	84	.47	.106	17	28.2	.43	294	.112	3	2.37	.025	.05	.1	.10	5.9	.1	.08	10
1400N 925E	2.0	105.0	67.3	158	.3	15.7	15.0	2082	3.99	44.8	.4	15.2	.6	20	.7	2.9	.3	77	.49	.087	11	24.0	.44	404	.086	1	1.65	.015	.07	.1	.13	5.3	.1	.07	9
1400N 950E	2.1	96.2	30.4	112	.5	32.9	16.1	828	4.33	20.0	.6	45.0	1.4	21	.3	1.5	.1	78	.34	.081	19	32.8	.70	233	.240	1	1.83	.031	.05	.1	.08	5.6	.1	<.05	10
1400N 975E	1.7	85.4	43.6	172	.3	31.4	17.6	1679	4.53	30.5	.7	9.5	1.7	43	.3	1.9	.2	74	1.06	.097	22	29.8	.63	405	.146	1	2.57	.020	.05	.1	.09	7.1	.1	.06	11
RE 1400N 975E	1.9	86.9	44.3	185	.3	31.6	18.6	1726	4.55	31.6	.8	11.0	1.8	43	.4	1.9	.2	73	1.08	.096	22	29.3	.63	402	.141	1	2.52	.020	.05	.2	.10	7.2	.1	<.05	11
1400N 1000E	2.0	78.7	66.7	183	.3	10.3	21.6	4083	4.75	40.2	.3	8.1	.2	19	1.2	4.5	.3	105	.42	.102	11	17.5	.57	576	.034	1	2.06	.009	.07	.1	.12	8.5	.1	<.05	9
1400N 1025E	2.0	79.2	79.2	170	.2	10.2	19.2	2659	4.54	46.3	.3	12.2	.1	21	.7	3.6	.4	112	.50	.152	11	16.3	.66	522	.018	1	2.39	.007	.07	.2	.12	7.9	.1	<.05	9
1400N 1050E	1.5	82.8	18.3	149	.2	52.3	27.3	1380	5.40	16.3	.9	6.3	3.6	29	.4	1.4	.1	87	.66	.092	29	41.4	1.34	525	.449	2	2.64	.052	.07	.1	.06	9.8	.1	<.05	11
1400N 1075E	1.7	70.9	30.0	185	.1	42.7	23.2	1788	5.12	23.0	.8	6.9	2.4	32	.6	1.7	.2	91	.79	.090	23	39.8	.92	392	.265	2	2.76	.026	.06	.1	.08	9.8	.1	<.05	12
1400N 1100E	1.7	80.6	26.9	180	.1	41.5	23.3	1635	4.97	22.6	.7	14.3	2.5	23	.7	2.3	.2	98	.53	.102	18	36.5	1.22	376	.182	3	2.84	.022	.07	.2	.08	13.3	.1	<.05	11
1400N 1125E	1.4	110.4	32.7	211	.6	30.6	22.7	2333	4.74	25.7	.4	49.3	1.4	24	.9	2.9	.2	92	.91	.125	15	30.8	1.46	512	.124	3	2.15	.015	.11	.1	.14	15.5	.1	<.05	7
1400N 1150E	2.6	223.7	43.4	1321	1.8	25.9	24.5	3157	5.81	44.1	.7	297.8	1.4	23	10.0	3.9	1.5	81	.52	.140	15	26.3	.72	475	.166	1	2.33	.014	.10	.1	.76	13.5	.1	<.05	9
1400N 1175E	2.7	51.8	23.2	288	.2	41.5	25.1	1806	5.34	18.4	.7	15.9	1.4	29	3.2	1.4	.2	91	.62	.131	17	38.2	.81	333	.248	1	3.32	.026	.12	.1	.07	6.1	.1	.08	14
1400N 1200E	3.4	49.9	31.2	360	.2	45.7	26.0	1625	7.03	23.7	.7	8.4	3.7	22	1.9	1.6	.3	125	.35	.145	15	52.3	.97	438	.473	2	4.19	.024	.07	.3	.05	8.0	.1	<.05	19
1400N 1225E	3.0	90.5	42.0	809	.7	29.5	27.0	2002	6.00	33.0	.7	23.3	1.9	28	6.2	1.7	.8	103	.50	.087	14	39.6	.66	595	.314	1	3.59	.019	.07	.1	.15	6.8	.1	.06	15
1400N 1250E	1.8	90.3	41.8	667	.5	20.2	21.1	3460	4.66	48.0	.6	70.0	.7	29	6.4	2.8	.5	62	1.05	.170	18	23.1	.50	869	.080	1	1.84	.008	.17	<.1	.11	11.6	.1	.08	7
1350N 900E	2.1	69.4	17.1	129	.1	38.5	19.7	890	5.25	17.6	.9	6.5	4.1	25	.3	1.4	.2	93	.47	.070	13	35.1	.94	300	.259	4	3.50	.020	.09	.2	.03	7.0	.1	<.05	15
STANDARD DS4	6.6	119.9	32.3	143	.3	33.2	12.0	811	3.02	22.7	5.4	25.6	3.9	26	5.1	5.1	5.0	76	.52	.092	16	163.1	.55	145	.085	2	1.68	.028	.16	3.9	.29	4.0	1.0	.06	6

GROUP 1DA - 10.0 GM SAMPLE LEACHED WITH 60 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 200 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 29 2002 **DATE REPORT MAILED:** Sept 13/02 **SIGNED BY** C.L........ D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data ___ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	3.1	3.4	3.5	43	<.1	11.1	4.4	598	2.10	<.5	1.9	<.5	4.4	87	<.1	<.1	.1	40	.79	.088	9	128.0	.64	178	.125	2	1.06	.059	.39	.1	<.01	2.5	.2	.13	5
1350N 925E	2.7	57.9	51.5	131	.3	22.0	15.0	1238	4.94	31.8	.6	28.9	.6	16	.4	2.1	.3	100	.34	.076	12	31.7	.56	233	.134	3	2.30	.015	.05	.1	.09	4.3	.1	.16	12
1350N 950E	2.0	65.0	72.9	119	.4	10.0	11.5	1391	3.52	50.7	.4	31.3	.2	18	.4	3.6	.4	80	.32	.084	9	15.8	.49	221	.032	4	1.99	.012	.07	.2	.26	4.6	.1	.23	7
1350N 975E	2.4	75.4	74.6	111	.2	10.2	13.6	1064	3.92	41.2	.4	19.7	.6	16	.5	3.0	.4	83	.32	.059	10	19.7	.42	272	.066	3	1.64	.012	.09	.2	.12	5.7	.1	.10	7
1350N 1000E	2.2	107.6	48.9	192	.2	13.5	22.2	5025	5.22	32.6	.4	8.5	.5	22	1.5	12.3	.2	100	.72	.092	10	18.3	.89	657	.036	2	2.08	.012	.09	.1	.24	11.8	.1	.08	8
1350N 1025E	2.0	63.7	57.5	163	.3	15.2	18.0	5143	4.75	42.0	.4	8.9	.5	28	.9	2.7	.3	88	1.17	.081	12	18.6	.77	737	.040	2	2.01	.011	.13	.1	.08	10.1	.1	.11	7
1350N 1050E	1.4	111.3	66.8	139	.4	13.2	16.8	2804	4.02	52.8	.3	17.3	.8	28	.6	3.3	.4	66	1.16	.100	13	13.9	.79	694	.016	3	1.65	.016	.11	.1	.13	10.5	.1	.11	5
1350N 1075E	1.9	68.7	51.5	126	.3	14.7	14.1	1938	4.01	38.2	.4	13.6	.5	17	.5	2.7	.3	75	.44	.085	14	19.1	.57	360	.062	3	1.71	.012	.19	.2	.12	7.7	.1	.13	7
1350N 1100E	1.8	89.1	69.2	214	.2	17.8	20.2	3880	4.91	40.5	.5	5.4	.4	47	2.2	3.4	.3	95	1.49	.125	14	36.5	.77	850	.029	2	2.36	.012	.08	.1	.11	10.4	.1	.12	8
1350N 1125E	2.0	80.4	59.1	132	.4	11.0	14.9	2686	4.45	35.5	.7	12.5	.3	40	.7	2.3	.3	90	1.42	.141	21	24.7	.46	791	.064	2	2.20	.010	.09	.1	.13	9.1	.1	.10	9
1350N 1150E	2.3	65.2	32.6	202	.3	38.1	21.0	1577	6.01	29.7	.7	8.5	2.5	12	1.1	2.2	.3	95	.31	.086	14	36.4	1.05	262	.235	2	3.01	.016	.06	.2	.11	6.8	.1	.11	14
1350N 1175E	1.1	318.1	27.8	134	.8	36.7	20.7	2938	5.12	26.2	.3	14.1	1.3	30	.5	3.2	.1	81	.95	.101	22	40.2	1.60	1005	.166	2	2.39	.014	.13	.1	.16	22.7	.1	.15	6
1350N 1200E	4.1	75.2	51.1	171	.4	15.7	19.7	2013	5.37	30.4	.6	11.8	1.0	23	1.5	2.4	.4	113	.58	.075	11	36.5	.38	625	.212	2	1.92	.019	.07	.2	.13	5.9	.1	.09	12
1350N 1225E	3.0	134.3	110.2	749	1.3	14.1	15.0	2273	4.39	66.6	.5	36.1	.4	35	7.0	2.9	.7	77	.79	.091	16	23.2	.45	735	.076	2	1.72	.016	.09	.1	.65	8.9	.1	.12	6
1350N 1250E	1.8	90.9	68.2	212	.6	14.6	15.6	2798	4.36	33.9	.6	17.3	.4	38	1.2	3.1	.3	92	1.03	.117	15	23.6	.55	973	.081	1	1.85	.014	.09	.1	.21	8.8	.1	.15	7
1300N 925E	1.3	445.5	18.0	99	.2	17.5	21.1	2901	5.23	24.0	.6	8.8	1.1	47	.8	5.9	.1	133	.85	.083	15	23.7	1.49	456	.066	3	2.64	.008	.14	.1	.08	15.9	.1	.07	8
1300N 950E	2.3	80.4	20.9	127	.1	35.2	20.7	1673	5.80	20.0	1.1	4.6	3.9	23	.7	2.0	.2	98	.44	.078	24	35.5	.95	392	.323	2	3.65	.023	.08	.2	.04	8.2	.1	.06	14
RE 1300N 950E	2.1	78.0	19.6	117	.1	34.8	19.9	1607	5.69	18.4	1.1	4.3	3.8	22	.8	1.8	.2	99	.41	.073	22	36.1	.94	366	.319	2	3.68	.021	.08	.2	.04	8.0	.1	<.05	13
1300N 975E	1.9	151.9	78.2	165	.2	15.3	20.1	4757	5.82	32.8	.5	20.7	1.1	21	1.0	10.1	.2	123	.48	.068	16	19.3	.83	856	.033	2	2.68	.010	.11	.1	.08	22.4	.1	<.05	8
1300N 1000E	2.2	56.7	61.8	153	.2	24.6	27.9	1868	5.99	36.3	.7	8.6	2.0	14	.6	2.0	.3	90	.25	.062	14	36.5	.56	245	.230	1	2.91	.017	.05	.2	.09	6.9	.1	<.05	14
1300N 1025E	2.6	56.5	73.1	127	.2	22.8	16.9	1052	6.00	36.4	.7	20.1	1.8	9	.5	2.3	.4	95	.13	.058	13	33.3	.53	201	.183	1	2.88	.015	.04	.3	.08	6.2	.1	<.05	14
1300N 1075E	1.8	81.2	44.5	139	.1	25.3	20.8	2598	5.94	34.7	.7	6.1	2.1	16	.6	3.5	.2	113	.40	.070	18	30.9	1.24	732	.054	1	2.86	.011	.16	.1	.05	16.6	.1	<.05	10
1300N 1100E	1.7	47.2	40.3	149	.1	20.6	19.7	2084	5.41	28.2	.4	11.9	1.0	10	.8	2.4	.2	108	.21	.054	10	23.6	1.06	258	.057	1	2.78	.009	.08	.1	.05	7.7	.1	.07	10
1300N 1125E	2.4	93.6	76.8	174	.6	12.0	18.0	4551	3.81	33.2	.4	24.0	.1	16	1.6	2.8	.4	90	.37	.081	9	21.1	.27	423	.055	2	1.54	.013	.09	.1	.11	3.4	.1	<.05	8
1300N 1150E	2.2	37.1	46.7	124	.2	17.5	12.7	952	5.56	26.1	.6	4.7	1.7	24	.3	1.7	.2	97	.76	.060	12	36.1	.53	468	.288	1	2.20	.019	.05	.3	.04	5.3	.1	<.05	15
1300N 1175E	1.6	83.8	43.5	96	.5	8.8	10.3	1727	3.95	23.7	.8	112.4	.3	48	.3	1.9	.3	69	1.63	.115	21	21.3	.29	1441	.065	1	1.95	.011	.07	.1	.13	7.9	.1	.10	8
1300N 1200E	2.4	167.6	33.9	156	.3	27.2	18.9	2210	5.43	25.4	.7	8.1	1.4	19	.5	2.3	.2	91	.62	.099	18	34.8	.87	466	.153	1	2.61	.015	.07	.1	.12	8.7	.1	.06	11
1300N 1225E	3.1	140.5	87.3	1068	.6	11.8	13.8	2689	5.20	76.5	.5	63.5	.3	18	5.1	2.7	.9	76	.46	.088	13	22.6	.49	368	.034	2	1.95	.008	.10	.1	.44	5.6	.1	<.05	7
1300N 1250E	2.3	272.5	46.3	461	1.1	20.3	16.6	2539	4.44	55.2	.4	24.4	.6	38	2.2	3.0	.3	64	1.71	.111	18	21.0	.66	649	.068	2	1.88	.011	.10	.1	.41	13.2	.1	.09	5
1250N 975E	2.1	93.1	31.4	132	.2	24.3	21.7	3238	4.83	22.5	.7	8.1	1.3	52	.8	2.2	.2	92	1.37	.108	17	27.9	.97	723	.192	3	2.59	.019	.17	.1	.07	8.6	.1	.11	10
1250N 1000E	2.1	71.4	21.3	130	.1	39.1	22.5	2281	5.55	16.5	.9	2.7	2.4	28	.7	1.6	.2	102	.65	.097	20	35.8	1.14	393	.313	2	3.42	.021	.11	.1	.04	8.3	.1	.07	13
1250N 1025E	2.8	96.6	34.5	146	.1	18.5	15.0	931	6.10	27.1	.5	4.5	1.4	6	.2	2.5	.2	145	.08	.054	9	31.7	1.01	169	.146	<1	3.26	.015	.06	.2	.05	9.1	.1	<.05	15
1250N 1050E	2.1	74.5	61.1	185	.1	32.7	21.3	2337	5.62	41.0	.6	19.0	1.8	20	.8	2.8	.3	144	.33	.061	10	66.4	1.50	260	.129	3	3.38	.015	.10	.2	.02	13.5	.1	<.05	13
1250N 1075E	2.5	51.9	38.1	128	.1	31.0	20.2	986	5.95	24.7	.6	7.4	2.0	13	.3	1.9	.2	127	.18	.066	11	45.5	.82	157	.238	<1	3.27	.015	.05	.2	.06	7.5	.1	.08	14
STANDARD DS4	6.7	118.1	32.6	142	.3	32.2	10.5	789	3.06	21.8	5.8	26.6	3.6	25	5.2	5.2	5.2	76	.53	.090	16	160.7	.58	144	.082	2	1.78	.027	.15	4.3	.29	3.7	1.0	.07	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.5	3.1	2.3	38	<.1	4.3	3.9	482	1.82	<.5	1.7	.5	4.6	82	<.1	<.1	.1	38	.52	.093	7	17.9	.49	200	.114	<1	.82	.059	.46	1.6	<.01	2.1	.2	.07	5
1250N 1100E	1.6	72.2	40.7	129	.2	22.8	19.5	2840	4.66	32.0	.6	57.9	.6	35	1.0	3.3	.2	92	.89	.104	17	27.9	.96	852	.070	1	2.39	.012	.07	.1	.11	11.4	.1	.12	9
1250N 1125E	2.1	78.6	51.6	125	.2	13.4	17.5	1856	3.63	35.3	.4	20.7	.2	23	1.1	3.9	.3	93	.63	.129	9	20.7	.81	434	.023	1	2.09	.010	.09	.1	.14	5.3	.1	.09	8
1250N 1150E	2.5	39.8	46.3	125	.2	8.4	9.6	502	4.20	24.6	.4	17.1	.7	19	1.0	2.3	.3	96	.42	.037	6	21.4	.33	289	.046	1	1.67	.013	.09	.2	.04	5.0	.1	<.05	10
1250N 1175E	2.2	377.9	72.5	129	1.5	18.1	13.5	2684	4.61	29.4	.7	15.8	.6	37	.4	4.2	.3	73	.94	.122	21	25.3	.63	783	.056	2	2.15	.009	.08	.1	.20	10.3	.1	.08	8
1250N 1200E	2.4	186.3	52.2	108	.8	8.4	8.9	1089	3.52	27.7	.7	39.5	.3	13	.3	2.3	.3	78	.34	.090	13	24.2	.25	466	.059	1	1.74	.011	.06	.1	.11	4.6	.1	.07	11
1250N 1225E	2.1	51.1	46.4	118	.3	5.2	7.9	1306	2.64	23.6	.4	13.3	.1	27	.6	2.3	.3	65	1.09	.079	7	15.7	.20	260	.035	1	1.07	.007	.10	.1	.08	3.0	.1	.09	7
1250N 1250E	2.0	141.7	70.5	426	.5	33.0	21.4	3079	5.11	51.8	.5	20.1	1.7	22	2.5	3.0	.3	79	.42	.109	12	29.0	1.15	443	.128	1	2.02	.012	.09	.2	.22	11.3	.1	<.05	8
125S 1+50W	2.9	54.8	31.5	222	.8	35.1	25.3	2577	6.16	65.0	.8	12.1	1.1	21	.8	1.4	.4	96	.44	.102	15	39.0	.65	496	.215	2	3.12	.015	.10	.1	.05	5.2	.1	<.05	15
125S 1+25W	2.0	62.8	24.2	292	.6	22.5	21.0	3531	5.12	39.8	1.0	8.6	1.2	28	1.8	1.5	.4	68	.67	.138	21	28.6	.51	864	.126	<1	2.40	.013	.15	.1	.04	5.5	.1	.07	11
125S 1+00W	2.4	47.0	23.0	106	.2	19.9	23.3	6562	5.82	65.3	.7	26.6	1.1	26	.4	2.4	.3	69	.50	.119	21	25.9	.56	1398	.054	1	2.11	.007	.15	.1	.05	10.7	.1	.08	7
125S 0+75W	2.0	71.1	28.8	186	.7	29.0	22.8	3155	5.53	45.7	.8	10.9	1.5	33	.9	1.4	.5	79	.67	.088	18	33.1	.57	1280	.152	1	2.44	.013	.15	.1	.04	6.8	.1	<.05	11
125S 0+50W	2.8	69.2	25.3	167	.4	24.6	20.9	2399	6.07	22.7	.7	10.6	.9	15	.6	1.4	.3	95	.25	.095	14	40.1	.45	723	.117	1	2.65	.013	.07	.1	.04	4.8	.1	.06	15
125S 0+25W	3.0	103.5	26.7	141	.7	23.0	17.7	2138	5.58	25.9	.9	20.1	.9	11	.5	1.5	.4	79	.15	.083	17	32.0	.44	488	.083	2	2.69	.013	.09	.1	.03	4.8	.1	<.05	14
150S 1+50W	2.0	102.7	54.8	252	2.2	33.0	22.8	3519	5.26	165.2	.7	10.2	1.7	42	2.1	2.3	.7	66	1.22	.101	19	30.7	.64	702	.224	2	2.19	.019	.17	.1	.09	7.3	.1	.09	9
150S 1+25W	1.7	52.5	21.0	332	1.0	30.3	21.9	3479	5.52	19.8	.8	5.7	1.2	40	2.2	1.1	.2	73	1.15	.154	16	30.5	.55	784	.210	2	2.14	.016	.15	.1	.04	4.6	.1	.08	13
150S 1+00W	1.9	77.9	18.4	128	.2	23.9	17.0	4006	5.80	26.7	.9	5.6	1.1	25	.5	1.5	.3	63	.67	.156	18	27.4	.50	929	.107	1	2.11	.010	.15	.1	.03	7.5	.1	.09	9
150S 0+75W	2.0	89.1	20.8	145	.6	29.1	18.5	3379	5.29	30.4	.9	12.2	1.6	30	.5	1.3	.4	60	.88	.126	19	26.0	.54	1146	.137	1	2.37	.013	.17	.1	.04	5.8	.1	.07	12
150S 0+50W	2.3	97.7	22.6	214	.5	28.4	21.7	4378	6.04	25.8	.9	17.5	1.9	27	.6	1.5	.4	72	.72	.121	20	30.1	.50	861	.129	1	2.52	.012	.21	.1	.03	6.4	.1	<.05	13
150S 0+25W	2.4	189.0	17.7	114	.3	40.5	21.0	2195	5.99	20.1	.8	16.8	1.3	20	.2	1.0	.3	100	.35	.094	14	49.3	.80	583	.209	1	3.59	.019	.08	.1	.05	6.1	.1	<.05	13
175S 1+50W	1.9	153.7	44.8	128	1.5	30.6	21.9	3793	5.19	21.7	1.1	4.7	2.0	27	1.1	3.3	.3	72	.59	.108	24	37.0	.66	654	.277	1	2.51	.021	.14	.1	.06	9.2	.1	.06	11
175S 1+25W	2.0	78.7	32.7	171	1.0	29.0	21.8	4365	5.52	29.8	.8	7.9	1.5	41	1.4	1.6	.4	66	1.27	.146	19	31.1	.59	951	.170	2	2.22	.016	.16	.1	.06	6.6	.1	.09	10
175S 1+00W	2.6	86.8	25.4	176	.8	26.8	21.3	4564	5.25	21.2	.8	5.5	1.3	38	.9	1.4	.3	69	.85	.215	18	29.6	.53	1024	.161	2	2.27	.015	.17	.2	.05	6.6	.1	.08	11
175S 0+75W	2.1	181.4	23.3	143	.5	28.5	20.2	3124	5.12	26.3	.8	4.7	1.3	32	.6	1.5	.3	71	.93	.142	20	28.7	.56	1134	.162	2	2.19	.014	.17	.1	.03	6.6	.1	.09	10
RE 175S 0+75W	2.2	185.4	24.3	152	.5	30.6	20.0	3311	5.35	27.7	.8	4.5	1.4	33	.7	1.5	.3	69	.92	.149	20	30.1	.57	1156	.157	1	2.40	.014	.17	.1	.05	6.4	.1	.09	12
175S 0+50W	2.0	79.1	20.6	122	.5	23.9	17.0	3537	4.96	19.7	.7	3.7	1.2	54	.5	1.2	.3	56	1.79	.146	20	24.3	.49	1295	.135	2	2.01	.015	.14	.1	.04	5.0	.1	.15	10
175S 0+25W	2.3	113.1	25.7	115	.7	25.7	21.0	3792	5.36	29.2	1.0	7.2	1.2	25	.6	1.8	.5	70	.64	.106	19	30.2	.48	848	.127	1	2.55	.013	.15	.1	.06	6.6	.1	.10	13
200S 150W	2.5	107.4	43.0	159	1.1	28.4	19.5	3951	5.61	19.7	.9	6.8	1.4	22	1.3	2.0	.3	66	.52	.131	22	30.0	.56	634	.157	2	2.41	.014	.14	.1	.06	7.7	.1	.09	10
200S 125W	2.1	75.6	30.2	148	.5	33.3	22.4	3692	5.72	19.5	.9	6.6	1.1	29	.5	1.8	.2	71	.82	.152	20	33.0	.67	707	.152	2	2.59	.012	.14	.1	.07	7.1	.1	.11	11
200S 100W	2.0	68.7	23.5	140	.7	30.1	22.7	3697	5.65	17.9	.9	7.0	1.3	36	.6	1.3	.2	72	.99	.169	19	32.1	.64	800	.159	3	2.58	.015	.23	.1	.04	6.3	.1	.10	12
200S 75W	2.3	101.9	26.3	126	.5	27.2	20.8	3723	5.64	22.7	.7	29.7	.5	15	.4	2.2	.2	66	.41	.149	15	28.2	.51	685	.087	1	2.10	.009	.15	.1	.05	5.3	.1	.10	9
200S 50W	2.1	68.4	22.1	124	.6	24.2	19.2	3143	4.92	17.7	.8	5.1	.7	25	.6	1.9	.2	59	.82	.127	17	25.8	.52	570	.096	2	2.24	.011	.15	.1	.06	5.3	.1	.09	10
200S 25W	2.2	94.6	35.0	100	.5	21.9	24.7	3441	4.98	28.0	.6	3.4	.8	45	.4	2.8	.2	65	1.06	.124	21	25.0	.52	355	.107	1	2.01	.012	.14	.1	.07	8.3	.1	.13	8
225S 150W	1.8	289.5	28.6	98	1.3	35.4	26.5	4389	5.69	26.9	.7	20.2	1.5	38	.6	4.1	.2	76	.82	.109	29	28.4	.94	1002	.146	2	2.01	.014	.16	.1	.18	19.5	.1	.12	8
STANDARD DS4	7.0	127.7	33.0	155	.3	37.0	11.7	780	3.15	24.0	6.5	30.0	4.2	28	5.0	4.9	5.3	79	.55	.094	17	169.4	.59	146	.085	1	1.74	.030	.17	4.2	.30	4.0	1.1	.07	7

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	3.3	2.2	38	<.1	5.3	4.0	527	1.78	.8	1.7	.5	4.1	83	<.1	<.1	.1	39	.54	.098	7	17.7	.53	211	.127	<1	.89	.064	.48	1.4	<.01	2.1	.2	.08	4
225S 125W	1.9	177.3	33.2	90	1.3	21.2	22.3	3857	4.60	25.2	.6	14.7	.8	32	.5	2.9	.2	59	.90	.128	20	17.9	.53	855	.071	1	1.55	.009	.21	.1	.20	12.7	.1	.14	5
225S 100W	1.6	118.9	22.8	98	.6	29.6	22.3	4421	5.34	15.7	.7	51.0	1.4	35	.6	2.2	.2	70	.83	.122	26	24.2	.61	859	.127	<1	1.77	.013	.17	.1	.12	19.4	.1	.12	6
225S 75W	1.3	193.7	19.1	80	1.2	37.6	21.1	3219	4.97	14.1	.6	12.0	1.5	29	.3	2.4	.1	64	.68	.100	26	25.5	.81	916	.148	<1	1.83	.013	.14	.1	.16	23.9	.1	.06	6
225S 50W	1.3	155.8	25.9	97	1.2	16.2	17.6	2980	3.83	19.1	.5	9.8	.5	38	.3	2.9	.1	53	1.34	.125	17	13.9	.45	598	.029	1	1.30	.006	.24	.1	.12	15.6	.1	.11	4
225S 25W	3.0	98.7	37.2	216	4.6	14.6	17.2	5877	4.22	19.7	.6	16.0	.5	42	1.0	3.5	.2	37	1.61	.168	18	14.1	.35	581	.039	<1	1.28	.006	.15	.1	.76	6.2	.1	.15	4
250S 150W	1.7	183.4	24.0	110	.2	23.2	26.2	3875	4.54	18.4	.9	7.5	.9	55	.7	2.4	.2	67	1.27	.170	29	19.6	.62	1347	.096	2	1.86	.012	.20	.1	.06	11.9	.1	.13	7
250S 125W	1.6	252.7	20.8	101	.4	31.8	23.1	3857	4.88	18.2	.6	11.6	1.7	44	.5	2.4	.1	77	.92	.110	25	24.2	1.15	1232	.175	1	2.12	.016	.24	.1	.06	13.1	.1	.06	7
250S 100W	1.9	153.4	26.4	107	.6	22.8	21.6	4229	4.22	17.8	.5	5.6	1.0	47	.6	2.2	.1	61	1.11	.143	20	20.2	.68	960	.098	2	1.67	.012	.27	.1	.10	11.4	.1	.13	6
250S 75W	1.5	212.4	30.2	121	.5	14.8	18.2	4470	3.69	16.0	.5	6.1	.7	48	.8	1.8	.1	53	1.55	.157	23	14.4	.52	1122	.078	3	1.65	.012	.20	.1	.08	8.8	.1	.14	6
250S 50W	1.5	184.6	43.4	134	1.1	17.5	20.0	4299	4.37	19.0	.6	6.7	1.0	39	.8	3.7	.2	60	.96	.117	21	17.1	.59	1225	.091	2	1.67	.012	.17	.1	.10	10.8	.1	.08	6
250S 25W	1.7	176.9	90.3	132	4.1	12.7	20.4	6722	3.92	21.3	.3	18.7	.4	47	.9	5.1	.2	42	1.78	.163	15	10.3	.37	837	.022	2	1.09	.007	.22	.1	.32	10.6	.1	.17	3
621310	6.0	97.5	182.0	674	2.0	18.5	24.3	1660	6.40	525.4	.7	60.6	1.4	17	2.5	8.8	1.2	110	.27	.057	14	39.2	.61	134	.077	1	2.86	.014	.07	.2	.14	6.9	.1	.06	12
621311	2.5	103.7	113.7	601	1.6	22.8	37.8	2572	5.05	203.0	1.1	12.9	.9	31	5.6	12.8	1.4	116	.88	.142	19	27.0	.80	248	.086	2	3.15	.012	.07	.1	.08	7.6	.1	.13	13
RE 621311	2.4	106.4	108.6	604	1.6	24.5	37.4	2553	5.14	207.0	1.2	14.6	.9	31	5.6	13.4	1.4	119	.93	.138	20	26.8	.83	235	.093	2	3.13	.012	.07	.2	.07	8.2	.1	.13	13
621312	1.2	64.8	40.9	395	1.5	7.1	9.2	1106	.97	70.5	.2	13.0	<.1	268	5.0	4.7	.7	19	14.58	.740	7	5.6	.42	928	.008	40	.43	.006	.16	.1	.09	1.0	<.1	.39	1
621313	2.7	84.7	208.8	935	3.1	22.6	26.5	4341	5.09	722.8	.8	11.8	.6	31	9.0	40.0	2.4	59	1.02	.154	27	22.5	.45	444	.080	2	1.95	.011	.13	.1	.11	6.3	.1	.17	9
621314	2.9	142.1	272.5	1078	5.7	21.7	33.9	4305	4.71	446.0	.5	12.8	.4	52	16.8	12.1	3.1	61	2.30	.170	24	18.2	.50	562	.051	6	1.49	.009	.16	.1	.12	7.0	<.1	.20	6
621315	3.0	274.1	798.0	3922	17.1	45.7	54.3	4509	6.09	682.1	1.0	40.3	1.2	63	63.3	23.5	5.3	71	1.61	.126	36	25.0	.61	353	.113	1	2.20	.016	.09	.1	.54	10.1	.1	.17	9
621316	5.8	1727.0	3132.5	27476	266.9	72.6	75.9	8689	11.96	10363.4	.8	506.6	1.3	52	248.9	876.0	161.8	49	.99	.125	32	15.3	.58	226	.011	2	1.37	.010	.12	.1	2.86	9.8	.1	.78	5
621317	6.0	402.8	2510.2	9364	20.3	71.5	89.1	8000	8.79	2300.0	.8	134.5	1.1	36	85.1	64.9	15.9	77	1.07	.135	44	25.7	.88	428	.047	3	1.83	.011	.11	.3	1.79	12.1	.1	.17	7
621318	2.7	283.2	524.6	2062	117.7	30.3	55.4	4929	6.63	1638.5	.8	99.3	.8	39	25.2	121.4	20.0	104	1.10	.133	25	29.3	.87	400	.096	2	2.42	.010	.08	.2	.26	11.3	.1	.14	10
621332	3.9	2830.3	4479.4	11871	265.1	16.1	220.7	14816	27.72	73826.8	.5	11480.2	.2	176	174.0	790.2	440.3	7	1.50	.024	3	1.0	.13	277	.003	<1	.22	.002	.04	1.1	27.80	3.1	<.1	.60	2
JTS 001	.7	238.5	39.3	136	1.2	12.5	16.3	2554	3.11	28.0	.3	13.7	.4	39	1.2	4.2	.5	67	1.26	.132	16	9.9	.94	543	.025	3	1.40	.006	.18	.1	.06	10.4	<.1	.06	4
JTS 002	1.4	119.8	87.0	399	1.5	11.4	14.1	2802	2.93	71.7	.4	14.6	.2	74	5.0	3.8	.6	47	2.92	.223	15	13.6	.49	1546	.036	4	1.34	.008	.16	.1	.14	3.9	.1	.20	5
JTS 003	3.1	95.8	103.3	560	.6	11.1	18.6	3461	4.81	60.4	.4	6.0	.2	36	6.7	6.2	.6	69	1.13	.275	9	16.2	.50	934	.044	3	1.45	.006	.18	.1	.09	3.5	<.1	.15	7
JTS 004	1.7	124.6	88.0	247	1.0	17.0	22.9	3530	4.60	51.0	.6	6.7	.5	27	2.3	4.3	.3	75	.80	.143	16	18.9	.88	875	.076	3	1.99	.008	.17	.1	.01	8.1	.1	.07	8
JTS 005	1.1	113.8	27.4	137	.4	17.9	21.2	4608	3.12	30.6	.4	11.0	.3	38	1.6	2.7	.2	72	1.50	.197	14	20.8	1.50	891	.026	3	1.96	.007	.17	.1	.09	11.9	<.1	.13	6
JTS 006	1.1	115.7	22.7	134	.3	19.3	22.9	2630	3.58	25.4	.3	9.9	.5	59	1.5	1.9	.2	109	1.81	.134	9	21.7	2.10	385	.062	7	2.32	.011	.16	.1	.05	12.4	<.1	.07	7
JTS 007	1.2	247.4	27.2	115	.5	14.0	18.3	4385	2.95	29.1	.4	7.3	.4	42	1.3	3.2	.2	83	1.45	.120	18	14.9	1.24	1370	.020	3	1.74	.007	.13	.1	.06	10.7	.1	.09	5
JTS 008	.5	71.4	14.6	110	.4	20.4	23.5	2446	4.25	11.7	.3	8.3	.6	28	.8	1.6	.1	120	1.37	.118	8	21.1	2.72	494	.029	4	2.35	.006	.14	.1	.03	11.5	<.1	<.05	7
JTS 009	.8	130.2	26.5	148	.6	19.4	22.7	2929	3.94	17.1	.3	9.0	.6	25	1.0	2.5	.1	103	1.03	.130	11	20.0	2.31	623	.028	2	2.09	.007	.15	.1	.06	13.2	<.1	<.05	6
JTS 010	1.0	104.8	24.8	122	.5	12.9	18.6	4620	2.99	21.0	.3	14.4	.4	30	.8	2.4	.1	71	1.46	.150	16	14.6	1.37	953	.019	5	1.59	.007	.15	.1	.06	10.3	<.1	.11	4
JTS 011	1.1	164.1	62.1	381	.9	13.3	18.1	2971	3.31	30.5	.2	21.9	.2	44	4.5	6.0	.2	63	1.96	.139	11	12.4	1.10	930	.018	.5	1.30	.006	.16	.1	.14	8.8	.1	.11	4
STANDARD DS4	7.0	128.9	33.0	156	.3	38.5	12.4	806	3.32	24.6	6.0	27.8	4.1	27	5.2	5.4	5.4	78	.54	.093	18	164.2	.59	149	.089	2	1.69	.029	.16	4.3	.29	3.8	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	3.2	2.5	42	<.1	5.5	4.3	515	1.79	.9	2.0	.5	4.8	90	<.1	<.1	.2	44	.53	.094	8	47.5	.54	219	.120	1	.88	.069	.47	.9	<.01	2.1	.3	<.05	5
JTS 012	1.0	113.1	25.4	116	.2	14.5	19.0	4198	2.89	23.5	.3	8.5	.4	36	.9	2.7	.2	72	1.72	.143	18	13.1	1.20	959	.026	3	1.72	.006	.12	.1	.10	10.5	.1	.12	5
JTS 013	1.4	166.4	60.1	250	.6	12.5	19.2	2688	3.17	32.5	.2	13.7	.4	40	2.2	6.1	.2	70	1.80	.147	11	11.2	1.12	843	.015	5	1.35	.005	.16	.2	.14	10.1	<.1	.10	4
JTS 014	1.1	273.2	46.1	157	.4	13.4	17.3	1965	3.41	23.4	.3	8.9	.6	23	.9	5.1	.1	71	.93	.122	11	10.7	1.06	557	.011	1	1.41	.004	.16	.1	.08	9.3	<.1	<.05	4
JTS 015	1.9	181.1	40.1	185	.4	16.2	20.9	5320	4.39	35.4	.4	11.2	.4	47	2.1	4.2	.2	106	1.51	.178	25	17.9	1.27	1022	.041	3	1.94	.008	.12	.2	.08	19.2	.1	.15	8
JTS 016	.8	105.2	21.7	110	.1	19.0	21.8	2016	3.61	15.0	.2	6.5	.6	20	.7	3.1	.1	82	1.20	.119	9	13.9	1.70	528	.014	4	1.77	.005	.14	.1	.06	10.0	<.1	<.05	5
JTS 017	2.7	111.3	37.3	154	.3	18.1	18.4	2511	3.37	26.9	.4	8.7	.5	31	1.6	2.3	.3	74	.98	.153	15	23.1	.76	607	.055	1	1.75	.008	.12	.2	.09	9.0	<.1	.13	7
RE JTS 017	2.7	112.0	36.2	147	.4	19.3	18.3	2674	3.60	27.0	.4	7.2	.4	33	1.7	2.4	.3	80	1.00	.173	16	24.6	.85	602	.074	2	1.88	.010	.13	.1	.09	9.0	.1	.14	7
JTS 018	1.5	121.7	29.7	120	.3	19.5	24.4	4155	4.12	28.9	.4	12.2	.5	29	1.1	2.7	.2	93	1.18	.146	23	28.4	1.08	661	.049	3	2.18	.007	.15	.1	.07	13.2	.1	.09	7
JTS 019	1.0	101.8	17.5	113	.2	25.3	22.1	2002	4.43	19.7	.3	9.2	1.3	16	.4	2.5	.1	100	.60	.105	16	29.8	1.66	388	.072	2	2.02	.011	.14	.1	.04	12.5	<.1	<.05	7
JTS 020	1.6	69.2	23.0	133	.2	30.5	19.0	1843	4.91	22.6	.7	5.4	1.9	27	.5	1.7	.2	101	.77	.103	16	37.4	1.22	424	.197	2	2.75	.013	.13	.1	.06	10.0	.1	.08	12
JTS 021	1.9	76.9	22.4	91	.2	22.3	21.2	3089	4.14	17.9	.7	4.9	.6	52	1.5	1.4	.2	78	1.72	.119	11	30.2	.62	476	.131	2	1.68	.011	.14	.2	.05	5.1	<.1	.14	11
JTS 022	2.0	136.3	28.6	118	.3	19.0	17.8	3186	3.37	21.1	.5	9.5	.3	54	1.8	1.8	.2	86	1.61	.217	15	41.9	1.00	715	.066	3	1.98	.012	.13	.1	.09	8.7	<.1	.20	7
JTS 023	1.9	124.5	27.8	150	.2	20.1	23.7	4045	4.22	21.9	.5	7.0	.7	42	1.4	2.0	.2	102	1.05	.178	16	38.2	1.40	596	.089	2	2.50	.012	.10	.1	.08	12.1	.1	.13	9
JTS 024	1.5	130.9	21.3	122	.2	14.7	16.3	2549	2.65	19.1	.3	6.2	.3	55	1.4	2.2	.2	66	1.94	.178	13	25.2	1.24	700	.033	5	1.55	.008	.14	.1	.19	8.9	<.1	.17	5
JTS 025	1.1	256.4	22.3	143	.3	14.9	21.7	3977	4.33	20.0	.4	10.6	.6	32	.5	7.1	.1	112	.99	.137	15	14.0	1.81	658	.050	2	2.10	.009	.13	.1	.10	16.0	<.1	.07	8
JTS 026	2.3	108.3	157.0	907	2.9	41.9	24.1	1395	5.71	249.5	.5	35.4	1.9	35	6.0	5.9	1.3	94	1.00	.085	21	36.5	1.13	230	.169	1	2.38	.021	.07	.1	.26	10.7	.1	.07	10
JTS 027	1.9	91.9	66.4	341	1.3	31.1	19.2	1659	4.34	90.1	.5	34.8	.8	42	2.3	4.7	.4	72	1.39	.095	17	32.6	.95	404	.073	3	2.06	.016	.07	.1	.14	7.3	.1	.12	8
JTS 028	1.4	86.9	72.0	267	.9	23.3	19.5	1855	4.08	54.7	.4	55.9	1.0	49	1.5	4.2	.2	72	3.06	.121	15	27.6	1.18	586	.063	1	1.83	.012	.09	.1	.12	8.1	<.1	.08	7
JTS 029	1.9	81.1	61.6	254	.9	27.1	21.0	1682	4.94	58.4	.6	15.4	1.6	40	1.4	3.9	.3	95	1.33	.076	18	36.0	.79	365	.133	<1	2.37	.020	.08	.2	.09	7.0	.1	.06	11
JTS 030	2.2	118.5	107.7	659	1.9	25.0	24.0	2576	5.44	255.3	.7	24.1	1.1	30	5.3	5.7	.7	81	.98	.104	22	28.4	.90	339	.067	1	2.06	.012	.08	.1	.25	11.0	.1	.11	8
JTS 031	1.7	100.5	91.1	530	1.0	31.3	25.7	1995	4.53	115.8	.3	16.3	.8	27	4.3	5.3	.6	80	1.14	.136	14	31.2	1.27	372	.055	1	1.97	.011	.08	.1	.08	8.1	<.1	.11	7
JTS 032	1.8	90.0	108.7	312	.4	24.4	23.9	2197	5.03	89.7	.4	15.5	.8	28	1.5	4.5	.4	97	1.04	.105	18	33.9	1.07	429	.047	2	2.23	.013	.09	.1	.06	8.8	.1	.07	9
JTS 033	3.4	129.8	199.7	506	1.1	41.8	27.0	2110	5.37	132.6	.4	50.9	1.2	27	4.0	8.1	.5	77	.71	.095	18	42.9	1.10	386	.007	1	2.29	.007	.09	<.1	.29	11.1	.1	.09	7
JTS 034	3.3	84.8	59.8	292	.3	28.0	27.0	1419	5.46	118.6	.3	35.2	.6	20	2.2	4.8	.4	90	.49	.060	10	34.7	.64	279	.047	1	1.76	.011	.08	.1	.07	5.6	.1	.06	9
JTS 035	2.9	83.8	65.0	242	.3	20.6	24.0	1100	5.69	77.7	.4	22.2	1.0	19	.9	4.6	.6	99	.35	.055	11	34.7	.69	498	.019	1	2.43	.008	.07	.2	.07	6.8	.1	<.05	10
JTS 036	2.8	80.0	80.5	343	.7	22.3	24.9	1829	5.48	54.2	.7	43.1	1.5	19	2.8	3.2	.3	99	.28	.071	21	43.2	.65	208	.110	1	2.42	.016	.05	.2	.11	7.2	.1	<.05	13
JTS 037	2.9	79.6	77.9	238	.8	19.1	17.5	1041	4.66	80.2	.4	24.5	.1	37	2.7	4.1	.9	94	.56	.090	10	29.0	.46	525	.027	<1	1.86	.012	.08	.1	.07	2.8	<.1	<.05	10
JTS 038	2.4	67.5	65.4	315	.9	14.8	17.5	888	4.84	148.8	.5	15.6	.2	9	3.4	4.9	.7	103	.07	.073	15	30.5	.45	135	.033	1	2.26	.009	.05	.1	.06	3.3	.1	<.05	11
JTS 039	3.2	72.0	84.2	752	.7	22.7	30.1	1580	7.35	180.2	.4	9.2	1.3	28	4.2	6.4	.9	138	.36	.060	8	32.5	.58	151	.138	1	2.12	.011	.05	.3	.03	5.5	.1	<.05	15
JTS 040	2.0	99.3	259.6	1589	3.6	25.6	27.4	3414	5.74	389.9	.8	12.2	1.2	47	12.1	7.5	.8	71	1.33	.127	27	23.2	.64	326	.120	3	2.12	.013	.15	.1	.65	12.2	.1	.12	9
JTS 041	3.5	149.3	47.5	196	.8	44.4	33.5	1865	6.99	212.0	1.2	9.0	1.3	56	1.7	13.0	1.4	62	.96	.145	23	28.1	.64	308	.094	1	2.14	.012	.12	.1	.07	9.8	.1	.10	8
JTS 042	1.6	124.1	57.4	389	2.1	25.5	25.3	2700	5.06	84.7	1.5	28.0	1.6	86	4.1	4.6	2.7	66	1.86	.140	23	25.5	.57	750	.154	3	2.48	.022	.10	<.1	.14	10.6	.1	.12	10
JTS 043	3.1	186.6	135.5	660	1.8	23.5	47.2	4376	5.98	183.9	.8	24.7	.8	37	10.5	10.3	1.5	124	.86	.238	26	29.8	.77	512	.081	2	2.25	.010	.14	.1	.08	12.7	.1	.12	10
STANDARD DS4	6.8	123.3	33.0	144	.3	36.6	11.6	750	3.14	22.2	5.9	27.5	3.9	26	5.0	5.3	5.1	74	.48	.090	16	165.2	.58	145	.085	<1	1.74	.026	.15	4.3	.29	3.8	1.0	.07	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

Keewatin Consultants PROJECT QC-Gordons FILE # A203434

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.4	2.3	2.2	33	<.1	3.5	3.4	491	1.61	.8	1.9	<.5	4.1	75	<.1	<.1	.2	38	.50	.087	7	44.0	.48	200	.114	1	.82	.063	.40	.6	<.01	2.0	.3	.08	4
JTS 044	1.5	106.9	72.0	489	3.2	9.2	15.4	1661	2.19	120.3	.4	16.7	.2	67	8.9	13.2	.9	40	3.53	.187	14	11.1	.44	453	.023	7	.86	.007	.08	.1	.21	3.2	<.1	.29	3
JTS 045	2.4	147.3	232.8	1075	2.3	21.6	31.9	5506	5.37	904.3	1.0	26.7	.5	45	15.8	22.5	2.0	63	1.17	.194	27	23.2	.52	583	.067	3	1.99	.010	.08	.1	.09	6.5	<.1	.17	8
JTS 046	2.1	89.5	120.5	688	1.7	32.8	30.3	2759	5.43	150.5	.9	6.1	.9	44	13.2	7.1	1.2	66	.94	.102	22	31.9	.48	324	.193	3	1.90	.014	.08	.1	.05	4.9	<.1	.13	11
JTS 047	3.0	157.4	74.5	497	2.7	25.5	40.2	2619	6.50	304.3	.8	59.8	.9	49	3.4	15.6	1.3	51	1.36	.136	34	17.7	.40	380	.021	3	1.22	.009	.13	.1	.14	8.4	.1	.19	4
JTS 048	3.5	96.8	203.2	931	4.3	21.3	24.8	2622	4.50	241.4	.7	32.2	1.0	48	9.8	12.0	1.3	53	1.59	.131	26	18.4	.48	306	.031	5	1.47	.008	.20	.1	.20	8.3	.1	.13	6
JTS 049	2.4	228.9	355.1	2138	5.7	26.0	43.3	3377	6.04	693.2	.6	85.1	1.0	31	20.6	13.2	2.9	94	.90	.154	24	23.3	1.17	506	.026	5	1.86	.009	.12	.1	.43	14.5	.1	.12	7
JTS 050	4.1	376.3	1128.2	6938	15.3	56.5	50.8	4194	6.67	1092.6	.7	99.6	1.3	39	72.1	23.1	3.4	69	.97	.156	40	23.4	.74	421	.007	5	1.39	.008	.14	.1	.53	12.7	.1	.20	5
RE JTS 052	5.1	300.5	606.9	2642	14.7	46.3	56.6	6557	7.45	555.9	.6	57.3	.7	79	31.2	25.2	3.5	67	2.39	.136	44	21.6	.66	908	.018	4	1.58	.008	.12	.2	.55	12.4	.1	.27	5
JTS 051	2.5	127.9	192.8	1132	8.3	35.7	27.4	3167	5.14	276.6	.6	33.8	1.1	52	11.5	16.2	2.4	66	1.34	.109	31	24.8	.75	783	.098	4	1.61	.015	.10	.1	.20	9.7	.1	.14	6
JTS 052	4.5	301.3	588.6	2578	14.6	48.1	56.4	6857	7.77	550.3	.6	59.3	.7	76	29.7	25.2	3.4	69	2.45	.135	44	22.3	.65	917	.019	6	1.57	.008	.12	.1	.55	12.2	.1	.23	5
JTS 053	2.8	146.5	464.4	2954	6.7	15.2	34.5	4286	5.03	182.0	.4	35.4	1.3	26	32.3	15.2	.6	62	.72	.119	37	9.4	.61	630	.001	2	1.35	.003	.16	.1	1.91	26.6	.1	.07	3
JTS 054	2.6	220.5	130.3	920	33.3	27.6	45.2	3833	6.47	522.3	1.2	218.1	1.0	35	8.8	40.1	5.5	126	1.25	.161	36	25.8	1.15	969	.062	5	2.23	.011	.15	.3	.20	17.7	.1	.11	8
JTS 055	4.5	310.2	243.4	882	32.0	27.8	35.8	1552	9.56	777.0	.7	1341.1	1.9	15	4.5	61.2	9.4	119	.28	.118	26	30.5	1.05	214	.021	3	2.94	.011	.09	.5	.19	13.6	.1	.09	11
STANDARD DS4	6.6	126.5	33.0	151	.3	34.8	11.4	762	2.99	23.0	6.1	29.1	4.0	24	5.3	5.2	5.4	74	.51	.096	16	166.8	.59	146	.084	1	1.69	.030	.16	3.9	.29	4.0	1.1	.07	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Keewatin Consultants PROJECT QC-Gordons File # A203434R
900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Adam Travis

SAMPLE#	Au** gm/mt
621332	11.54
JTS 055	1.63
STANDARD AU-1	3.34

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: SOIL PULP

DATE RECEIVED: NOV 8 2002 DATE REPORT MAILED: Nov 15/02 SIGNED BY C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Keewatin Consultants PROJECT Horn East File # A203639 Page 1

900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Jill Moore

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	Au* ppb
SI	.6	7.5	96.7	117	.1	<.1	<1	17	.06	<1	.3	<1	.3	165	1.4	1.9	.2	<1	8.04	.008	2.0	3.6	.10	198	.030	.89	11.283	.23	1.1	87.1	3	2.3	3.8	.5	<.1	<1	<1	2.1	.1	2.7	2.4	1.0
126651	1.0	103.1	15.1	45	.1	3.2	5	4714	5.68	20	.1	<1	.2	260	.5	2.2	.1	14	14.93	.005	9.6	9.4	4.52	575	.015	.44	.173	.09	3.6	3.7	20	.1	21.6	.3	<.1	<1	6	18.5	.2	2.5	.1	13.5
126652	1.4	5825.2	5.5	31	2.0	10.9	9	2118	3.30	2	.6	<1	1.3	380	.4	1.7	.1	161	13.56	.124	13.0	120.1	1.22	181	.437	4.71	.147	2.28	3.1	35.8	26	.7	16.0	3.9	.2	1	18	10.0	.3	57.4	1.2	2.9
126653	4.3	13415.3	543.4	36366	23.7	15.6	32	1590	3.85	21	.3	<1	.4	80	243.0	16.8	.1	46	5.88	.023	6.3	24.1	1.79	42	.070	1.24	.077	.51	7.8	4.6	12	2.3	3.2	1.0	<.1	<1	5	42.3	2.1	14.7	.3	9.1
126654	9.4	134.2	164.8	718	.7	15.3	11	2251	5.35	33	.7	<1	.8	149	7.0	6.7	.1	55	4.87	.053	7.0	38.2	1.24	84	.105	2.29	.201	.61	9.4	26.7	12	.4	11.1	2.1	.1	<1	5	23.8	2.3	18.8	.7	5.6
126655	.8	49.2	5.5	84	.1	7.5	9	7519	7.47	2	.3	<1	.5	123	.7	2.0	<.1	48	14.87	.031	10.7	45.8	3.95	87	.089	1.12	.070	.45	2.7	8.2	21	.2	12.2	1.6	.1	1	6	16.6	<.1	9.7	.3	2.0
126656	1.9	99.1	16.1	59	.5	13.2	22	1516	5.62	40	1.9	<1	4.4	369	.4	3.9	.1	256	4.27	.249	27.0	21.2	1.78	677	.659	8.31	1.840	3.32	6.5	80.4	51	1.3	19.8	15.3	.7	2	19	21.5	.6	66.5	2.6	11.5
126657	15.1	97143.1	24.4	117	46.1	96.4	116	1533	10.28	237	.8	<1	.5	65	3.0	12.7	.1	101	3.42	.023	1.4	47.4	1.14	10	.061	1.42	.020	.66	5.2	15.1	3	3.2	8.4	1.1	.1	<1	4	24.5	7.6	20.3	.5	11.7
126658	19.0	85106.5	26.0	60	48.0	98.5	138	3328	11.84	136	.5	<1	.4	133	2.3	18.4	<.1	66	9.33	.019	3.0	26.9	2.93	33	.028	.74	.014	.33	4.7	7.2	6	1.7	12.7	.5	<.1	<1	2	14.9	6.5	9.6	.3	16.5
126659	12.8	1899.7	18.8	38	4.6	52.2	21	599	2.45	34	4.8	<1	1.4	187	.5	7.2	.1	144	3.11	.454	9.3	87.8	.81	46	.104	2.05	.046	.92	10.2	14.0	17	.8	25.5	2.0	<.1	<1	6	36.4	1.1	29.5	.3	6.8
126660	19.4	29825.9	19.7	46	18.3	74.8	104	2399	6.61	108	1.2	<1	.5	106	1.0	16.3	.1	140	5.73	.028	2.5	66.7	1.77	26	.041	.95	.024	.37	13.7	13.7	5	.8	12.1	1.0	<.1	<1	3	34.4	2.5	11.8	.4	16.4
RE 126660	17.7	28901.0	19.2	45	17.0	70.0	101	2266	6.39	110	1.2	<1	.5	106	.9	15.5	.1	134	5.57	.027	2.5	65.2	1.73	24	.040	.89	.024	.36	13.2	13.9	5	.9	11.8	.8	<.1	<1	4	35.2	2.5	11.4	.4	18.4
126661	5.3	2494.6	4.6	28	1.7	56.1	65	2940	5.32	92	.8	<1	1.0	207	.2	3.2	<.1	82	10.76	.069	6.9	247.0	3.13	176	.125	2.25	.134	.95	3.6	19.3	13	.3	10.8	1.5	.1	<1	15	15.0	.3	23.8	.7	3.5
126662	45.3	88627.1	27.6	47	52.1	127.5	187	2261	10.75	470	2.0	<1	.9	73	2.2	16.3	<.1	105	4.94	.103	3.4	62.3	1.49	13	.057	1.32	.017	.64	8.5	17.8	7	3.1	15.0	1.3	.1	<1	5	14.8	6.0	18.6	.5	15.9
126663	4.5	346.6	44255.1	99999	18.8	3.1	12	817	.74	1	.1	<1	<.1	123	2412.8	40.7	1.7	27	2.74	.017	.4	18.2	.25	13	.029	1.04	.047	.39	6.8	4.8	1	.2	2.6	.5	<.1	<1	4	32.1	5.7	14.4	.2	233.2
126664	2.0	395.1	115.5	405	.5	11.6	34	1600	4.97	3	.6	<1	1.2	374	4.6	1.3	.2	248	6.57	.162	8.5	53.7	2.19	517	.411	8.28	3.019	3.18	2.3	19.3	16	.8	14.4	4.3	.2	1	34	25.2	.5	60.8	.8	25.4
126665	2.6	591.8	165.0	505	.6	3.3	1	178	.57	<1	1.2	<1	3.5	344	7.8	15.8	<.1	9	.32	.003	6.4	24.5	.13	605	.016	2.48	.035	1.09	11.4	25.5	11	.7	3.9	3.7	.3	<1	1	68.0	<.1	25.1	1.2	3.5
126666	8.4	39.6	4080.5	36	1.2	7.9	2	595	.58	2	2.7	<1	5.6	622	.9	16.8	.7	8	.47	.007	3.8	37.9	.14	603	.028	2.65	.051	2.57	18.5	35.0	8	1.6	6.3	6.5	.4	<1	1	65.9	<.1	48.3	1.6	3.0
126667	1.9	221.5	2043.9	159	1.4	.8	2	6088	4.71	5	.6	<1	.8	272	1.8	4.7	.1	13	19.17	.009	24.2	5.0	6.77	691	.013	.87	.015	.41	1.1	8.8	33	<.1	20.1	.6	<.1	<1	1	10.6	.1	14.8	.2	1.0
126668	3.2	80.2	57.4	36884	2.3	3.7	5	2826	3.32	9	2.1	<1	3.0	162	319.2	7.1	<.1	32	9.57	.030	9.0	18.8	2.85	55	.044	3.41	.027	1.49	5.0	42.1	13	.4	6.5	1.9	.1	1	3	28.0	1.3	52.6	1.2	2.6
126669	2.6	10.5	13.1	136	.2	6.8	5	1834	2.31	39	1.5	<1	3.2	260	1.1	3.6	.2	96	5.48	.083	7.4	22.1	1.10	162	.171	5.53	.200	1.81	4.7	44.6	16	1.0	17.4	3.3	.2	1	9	25.8	1.3	81.8	1.6	11.5
417151	1.4	64.8	11.7	165	.2	63.1	28	1364	5.61	5	2.1	<1	4.2	483	1.0	2.4	.1	201	4.55	.128	20.1	178.8	3.44	1138	.570	8.37	3.688	.92	1.2	78.7	34	.5	16.6	10.6	.5	1	26	35.3	.4	26.2	2.4	2.4
417152	1.2	10.8	5.6	55	.1	1.7	7	981	3.09	5	2.4	<1	4.0	307	.3	.7	.2	95	4.02	.102	16.1	4.0	1.27	539	.299	8.42	1.706	2.76	1.9	39.3	30	1.0	18.2	7.1	.4	2	9	12.1	.7	79.2	1.8	.3
417153	.9	1363.4	5.9	45	.7	3.8	5	6795	8.86	4	.1	<1	.2	398	.4	2.4	.1	53	17.35	.010	15.5	6.4	3.85	565	.027	.41	.045	.07	2.8	1.3	33	<.1	18.7	.5	<.1	<1	5	15.4	.2	2.0	.2	1.8
417154	1.3	7409.9	4.6	21	.7	39.8	14	1899	3.69	3	1.5	<1	3.9	242	.2	2.4	<.1	141	4.97	.113	12.1	178.8	.95	499	.336	7.59	3.254	2.85	3.1	52.3	25	.6	14.1	6.0	.3	<1	22	11.1	.4	62.4	1.8	1.1
417155	4.1	546.9	5.4	131	.6	13.0	11	1196	3.33	10	.6	<1	1.2	85	1.6	4.4	.1	98	.47	.086	11.3	38.7	.28	566	.261	4.02	1.429	1.03	13.6	30.7	20	.6	13.9	4.6	.2	1	9	46.7	<.1	26.1	1.1	7.4
417156	1.9	33.9	4.9	28	.2	4.3	5	812	1.12	5	.3	<1	.7	41	.3	4.3	<.1	49	1.83	.040	3.6	28.5	.14	103	.131	2.42	.581	.75	8.6	17.9	7	.4	4.1	1.7	.1	<1	4	54.5	<.1	19.7	.6	3.1
417157	2.5	210.0	100.5	65	.9	3.7	2	25893	5.02	7	.1	<1	<.1	664	.8	7.4	.1	17	10.82	.008	5.0	15.3	3.39	134	.013	.58	.019	.23	8.9	3.4	10	.1	11.9	.2	<.1	<1	3	18.5	.5	7.5	.1	8.1
417158	1.0	8.0	6.2	38	.1	1.0	<1	425	.80	44	4.1	<1	3.8	156	.4	1.5	.8	14	1.98	.029	9.2	8.6	.28	677	.053	6.69	1.850	2.21	5.2	56.0	16	.4	11.1	10.8	.6	1	1	6.9	.4	67.8	2.2	1.3
417159	4.1	119.4	17.5	89	.4	8.2	13	732	7.98	19	.7	<1	1.2	589	<.1	1.7	.1	322	.29	.163	4.9	65.9	2.48	92	.387	8.62	3.792	1.81	3.2	35.0	10	.9	4.7	3.8	.2	1	38	25.6	1.1	46.0	1.1	7.7
417160	5.3	155.7	3.7	49	.2	20.9	26	2515	5.76	4	.5	<1	.7	219	.2	2.4	.1	276	5.04	.143	6.6	74.9	2.77	109	.318	6.84	1.972	1.95	1.6	22.1	13	2.5	11.8	2.4	.1	1	35	15.7	1.2	61.7	.7	5.2
417161	43.3	197.5	17.0	14	1.3	4.2	4	164	6.38	60	.5	<1	.7	119	.1	9.9	.3	129	.08	.052	2.0	29.0	.50	2821	.101	6.53	.042	3.31	7.0	27.3	3	5.9	4.1	1.5	.1	1	10	15.9	.1	119.7	.9	38.8
417162	1.4	1848.7	10.7	25969	2.5	1.0	3	426	.80	3	<.1	<1	<.1	930	143.7	9.9	<.1	12	2.04	.002	.2	1.7	.20	52	.005	.36	.008	.03	.9	<.1	1	.1	2.3	<.1	<.1	<1	1	9.2	1.1	1.1	<.1	4.1
417163	2.8	394.8	16.7	59	.7	17.6	27	1399	3.88	185	1.8	<1	3.9	177	.4	5.0	.1	113	4.10	.080	9.6	89.2	.91	41	.284	6.24	2.858	1.43	8.1	56.9	21	.7	12.9	4.6	.2	<1	16	19.1	1.5	38.7	2.0	150.5
417164	1.7	530.0	4.5	42	.3	11.2	13	2599	3.18	63	.6	<1	1.5	176	.1	3.4	<.1	48	7.26	.031	8.0	42.8	1.57	206	.095	2.29	.677	.72	6.8	19.5	15	.4	11.0	1.6	.1	<1	6	36.1	.3	19.7	.7	35.3
STANDARD DST4/DS4	7.6	126.7	38.7	174	.3	38.4	13	962	3.87	23	7.4	<1	6.6	250	5.2	6.4	5.4	135	1.65	.101	26.1	266.2	.98	1068	.414	7.11	1.957	2.04	7.5	48.3	48	6.4	14.4	11.5	.6	3	11	22.5	<.1	68.2	1.7	27.4

GROUP 1EX - 0.25 GM SAMPLE DIGESTED WITH HCLO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-MS.
AU* IGNITED, ACID LEACHED, ANALYZED BY ICP-MS. (10 gm)
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 9 2002 **DATE REPORT MAILED:** Sept 23/02 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm
417165	4.3	576.8	19 8	4887	1.5	10.2	13	851	1.50	18	.5	<1	1.4	64	37.3	5.5	.1	59
417166	2.8	36 8	2 2	32	.1	4.7	11	1592	1 80	<1	2.7	<1	.3	376	.2	.6	<.1	135
417167	2.9	100 4	12 0	72	.4	13.0	11	10736	4.75	18	.3	<1	.1	868	.3	10.1	.1	101
417168	9.3	5751.3	4 8	7	4.0	2.8	51	2576	2.72	5	.1	<1	.1	479	.1	5.5	.2	17
417169	4.2	23 7	3 4	12	2	2.4	3	3674	5.87	110	.1	<1	.1	71	.1	8.1	<.1	39
417170	41.4	3287.6	3 2	41	1.4	21.2	15	1088	5.31	1	.6	<1	1.0	136	<.1	1.5	.1	183
417171	1.6	113.1	7 8	110	.1	15.4	39	2303	7.37	12	.7	<1	.8	313	.1	1.5	.2	294
417172	1.2	15.9	5.3	14	.1	2.3	11	7333	3.03	5	.2	<1	.2	404	.2	3.3	.1	89
417173	3.7	80.2	3 8	7	.4	6.4	8	2723	1.26	1	.1	<1	.1	181	.1	12.0	.1	55
417174	.7	839.3	1 5	14	.5	6.4	12	3046	3.09	<1	.2	<1	.4	111	.1	11.9	.1	83
417175	5.1	18.5	4 9	9	.2	7.8	6	928	2.34	210	.1	<1	.2	90	.1	13.8	<.1	88
417176	.9	220.4	1.9	103	.1	5.3	7	729	2.09	1	.6	<1	.9	359	1.1	2.6	<.1	164
417177	2.3	1158.6	2.6	22	.3	4.1	6	1539	1.97	2	.5	<1	.8	358	<.1	2.7	<.1	112
417416	5.1	20.6	22.8	63	.7	4.7	15	536	5.43	311	.5	<1	1.3	109	.1	6.2	<.1	129
417417	14 5	2543 6	194 6	1487	2.7	25.2	17	2036	4.89	27	.6	<1	.9	154	20.6	4.2	.1	156
417418	3.3	74.9	5485.5	13788	2.7	6.6	16	424	.71	7	.4	<1	.6	49	122.6	19.9	.6	127
417419	5.6	368.2	47372 6	69228	48.2	9.1	10	178	1.09	3	.2	<1	.3	90	1001.7	96.9	1.8	74
417420	3.0	78.7	8952.0	4681	5.6	5.8	7	158	1.04	12	.2	<1	.4	114	37.3	23.0	1.9	118
RE 417420	3.2	79 0	9051.3	4628	5.6	6.0	7	161	1.06	12	.2	<1	.5	117	36.7	23.3	1.9	123
417421	5.1	80.4	504.6	45933	5.4	7.6	5	642	.72	3	<.1	<1	<.1	498	454.9	24.7	.1	30
417422	2.6	23.7	153.1	9100	1.8	5.0	7	562	.81	8	.1	<1	.2	392	97.2	21.5	.2	54
417423	5.7	6.4	37.1	172	.1	3.8	1	999	1.19	3	6.4	<1	11.7	91	2.1	1.0	.1	4
417424	3.1	645.3	27 8	45714	1.9	4.4	9	402	1.24	9	.2	<1	.3	59	416.6	20.2	1.5	55
417425	10 5	5785.3	67.9	59852	6.6	7.2	10	633	2.16	3	.2	<1	.2	31	580.3	15.5	10.0	96
417426	2.3	30 9	16.3	439	<.1	2.6	1	334	.49	2	8.4	<1	14.5	25	4.4	7.5	.4	7
417427	3.4	1324.8	40.7	99999	11.2	7.3	20	826	1.92	6	.9	<1	.2	52	2221.6	40.0	.5	112
417428	1.3	25.5	4727.0	1353	2.2	2.9	2	411	.36	4	.2	<1	.2	4010	15.9	8.7	2.3	46
417429	4.8	221.5	33459.0	48532	16.0	10.5	10	638	.89	4	.3	1	.3	315	558.6	31.4	8.6	71
417430	7.6	87.3	2646.3	485	.6	23.9	37	843	5.35	20	.4	<1	.9	341	5.4	6.1	.4	232
417431	7 9	303 1	4652.1	49890	8.7	4.9	7	2841	1.28	8	1.2	<1	1.6	321	854.1	21.4	.3	68
417432	77 2	21594.6	100 6	3011	22 9	11.7	13	387	3.34	7	2	<1	.3	35	27.6	15.7	2.0	87
417433	10.1	1177 9	54.7	7337	2.2	10.7	5	313	1.10	7	.2	<1	.3	85	56 3	15.5	1.7	64
417434	2.9	228.1	28801.7	48224	16.3	4.6	8	868	.80	7	.1	1	.1	71	601.0	30.6	1.2	41
417435	3.7	26.5	111 2	1169	.2	5.3	1	493	.53	4	8.5	<1	13.6	51	20.3	2.8	.2	7
STANDARD DST4/DS4	7.6	132.9	39.0	180	.3	38.0	14	1015	3.82	24	7.1	<1	6.2	244	5.5	6.4	5.5	132

SAMPLE#	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	Au* ppb
417165	2.40	.083	19.4	33.3	.39	198	.165	3.03	.598	1.06	15.1	33.3	36	.7	8.9	2.9	.1	1	3	51.1	.3	29.1	.9	9.1
417166	30.65	.041	3.3	18.2	.94	303	.138	1.69	.125	44	.4	12.3	5	.2	6.6	1.5	.1	1	9	9.5	.5	14.7	.4	16.7
417167	5.24	.055	1.1	39.7	1.40	28	.109	3.14	.019	1.40	9.5	16.8	5	.5	12.8	1.3	<.1	<1	11	17.3	2.0	49.8	.5	23.6
417168	5.82	.004	3.4	16.9	.49	56	.009	.76	.021	.36	7.6	2.3	8	1.0	7.5	.3	<.1	<1	1	18.4	1.0	12.2	.1	139.3
417169	8.93	.031	3.2	16.1	2.67	286	.056	1.52	.045	.48	7.6	4.1	6	.2	12.7	1.1	<.1	1	5	44.9	.4	16.9	.2	166.2
417170	2.49	.131	5.9	35.8	1.56	1681	.233	8.01	.910	3.72	2.5	34.2	11	2.4	11.6	4.3	.2	1	18	14.7	<.1	121.0	1.1	48.9
417171	2.60	.151	3.6	21.9	2.93	30	.378	7.72	1.985	2.12	4.2	28.7	10	.9	13.1	3.6	.2	2	31	19.4	3.6	67.1	1.1	12.2
417172	22.02	.034	15.5	5.6	1.88	103	.089	1.76	.295	.67	3.5	7.2	26	.3	21.3	.9	<.1	<1	10	18.4	.9	24.3	.3	6.0
417173	7.53	.026	4.7	30.7	.22	77	.053	1.46	.072	.65	15.0	4.9	8	.2	5.9	.5	<.1	<1	5	51.6	.8	22.0	.2	7.1
417174	5.98	.058	4.4	13.3	1.71	1249	.095	2.38	.017	1.03	3.5	7.5	8	.3	8.1	1.1	<.1	1	9	46.8	.2	32.3	.3	2.5
417175	1.14	.047	2.8	32.6	.37	134	.088	2.78	.233	1.20	18.1	7.7	5	.4	5.0	1.6	.1	1	7	58.0	.4	36.8	.3	88.7
417176	3.26	.124	4.8	24.5	.58	453	.257	6.78	2.560	2.74	4.2	42.6	9	.6	8.2	4.8	.2	<1	13	22.5	<.1	65.0	1.3	9.0
417177	7.01	.085	8.7	30.1	.58	397	.165	4.99	1.755	1.94	8.8	30.1	15	.5	12.3	3.4	.2	1	13	25.5	.1	52.6	1.0	4.8
417416	.45	.147	5.8	10.1	1.44	120	.256	6.91	2.534	1.94	8.4	36.7	12	.5	8.2	6.3	.3	1	9	27.5	1.6	54.8	1.2	304.3
417417	4.98	.099	7.0	41.3	.95	104	.198	6.38	054	2 74	7.8	33.9	10	.6	11.6	4.0	.2	1	16	11.3	1.2	61.9	1.0	119.0
417418	.63	.055	1.7	25.8	.27	532	.209	3.81	.576	1.71	7.7	22.1	3	.5	3.0	2.0	.1	2	11	40.3	.3	53.9	.6	35.0
417419	.20	.042	.5	31.6	.31	36	.111	3.04	.710	1.33	16.7	14.1	1	.4	2.1	1.3	.1	1	7	32.4	3.9	37.7	.5	222.9
417420	.11	.050	1.0	55.1	.24	210	.177	3.67	.455	1.56	8.0	12.8	2	.4	1.8	1.7	.1	1	14	40.9	.3	46.8	.4	81.6
RE 417420	.11	.049	1.0	59.1	.24	221	.186	3.50	.461	1.58	8.3	14.4	2	.5	1.7	1.8	.1	<1	14	43.1	.3	47.3	.5	72.8
417421	.94	.011	.8	22.3	.14	97	.033	.61	.021	.19	18.5	2.8	2	.2	2.3	.4	<.1	<1	2	55.0	.8	6.6	.1	35.7
417422	.82	.024	1.4	39.1	.18	127	.058	1.28	.133	.51	11.1	4.7	3	.3	1.9	.8	<.1	<1	5	61.9	.3	15.7	.2	17.9
417423	2.04	.005	20.5	14.1	.50	1129	.046	6.69	1.651	4.34	13.0	95.0	38	1.3	19.5	15.5	1.1	1	1	13.9	<.1	80.4	3.2	3.7
417424	.46	.046	1.8	18.7	.41	45	.078	2.19	.723	.62	14.1	8.6	3	.3	3.1	1.3	.1	2	4	68.8	1.4	18.6	.3	47.4
417425	.53	.048	2.4	26.5	.61	49	.100	2.54	.029	1.10	16.3	6.4	4	.6	3.8	1.4	.1	1	9	63.0	2.1	36.5	.2	396.8
417426	.30	.001	2.5	8.1	.22	134	.011	4.56	1.302	1 71	11.5	42.9	5	7.3	20.4	40.3	4.2	1	3	32.7	<.1	92.2	3.7	12.1
417427	1.90	.051	2.4	30.0	.46	15	.147	2.16	.048	.78	10.2	7.7	5	.7	4.6	1.4	<.1	1	8	38.2	6.9	27.0	.3	103.7
417428	.90	.018	1.1	11.8	.13	249	.054	1.21	.145	.48	4.8	4.7	3	.2	3.1	1.2	<.1	1	3	32.1	.2	15.4	.3	121.6
417429	.67	.042	.9	48.9	.20	36	.118	2.20	.350	.94	19.0	17.8	3	.3	3.7	2.1	.1	<1	6	56.6	1.6	28.7	.5	947.7
417430	1.00	.105	2.3	63.9	2.81	81	.322	7.41	2.444	2.69	3.6	30.5	5	.4	5.3	3.1	.1	1	24	32.2	1.4	53.9	.9	14.0
417431	10.65	.052	10.4	18.8	.74	54	.095	2.73	.406	1.03	7.3	37.1	17	.3	14.1	2.0	.1	<1	4	20.4	1.6	33.3	.9	76.0
417432	.47	.044	1.4	27.9	.54	98	.092	2.08	.293	63	10.5	8.5	3	.4	2.2	1.1	<.1	1	6	53.1	1.5	19.2	.3	192.2
417433	.50	.036	1.8	52.7	.21	403	.079	1.76	178	73	22.0	9.7	4	.3	2.4	.9	<.1	1	5	51.9	<.1	22.7	.3	51.6
417434	1.58	.016	4.0	22.8	.18	106	.046	1.27	.214	.47	13.2	4.6	7	.2	4.5	.4	<.1	1	3	55.3	1.5	14.8	.2	333.1
417435	1.00	.001	1.7	18.2	.15	207	.009	4.40	2.670	92	16.1	40.4	4	6.9	27.3	39.5	4.2	2	3	18.7	<.1	53.5	3.5	17.0
STANDARD DST4/DS4	1.66	.103	26.0	274.7	.99	1091	.417	6.96	1.900	1 98	8.1	49.0	48	6.7	15.4	12.0	.6	4	10	21.9	<.1	66.5	1.7	30.0

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm	Au* ppb
417436	1.3	8485.3	14.8	31	2.4	6.0	8	4188	5.14	<1	.4	1	.3	118	1.1	4.5	.4	88	11.64	.041	3.7	9.8	3.04	291	.085	1.96	.021	.92	4.2	8.5	8	.9	11.1	1.2	.1	<1	7	23.7	.6	27.9	.3	363.9
417437	1.0	14258.3	5.6	42	5.5	14.9	23	1529	5.08	1	.6	<1	1.1	182	.2	4.1	.3	241	3.55	.177	5.2	16.5	1.93	107	.373	7.03	1.383	2.62	3.1	31.2	11	1.1	11.0	4.0	.2	<1	24	19.9	1.0	70.3	1.0	122.9
417438	2.9	116.2	6.7	10	.1	4.7	2	1757	2.35	1	1.7	<1	5.5	54	.2	4.9	<.1	15	4.45	.004	14.0	9.7	1.09	146	.022	3.35	.046	1.56	9.8	37.0	21	.5	10.2	4.8	.5	2	1	38.0	<.1	36.6	1.5	9.8
417439	6.0	5947.5	3.5	134	2.5	24.0	18	1792	4.98	4	.2	1	.3	658	.2	1.7	.1	162	2.19	.103	.7	43.3	1.50	64	.239	6.26	2.464	1.82	5.4	17.1	3	1.8	7.4	3.3	.2	<1	16	20.1	.7	40.1	.6	610.0
417440	2.9	25.3	3.9	11	<.1	4.3	1	620	.53	3	8.3	<1	17.3	43	.2	2.5	.1	3	.86	.002	6.8	7.2	.20	322	.013	5.38	1.523	1.85	13.4	49.0	13	12.5	27.9	50.4	5.6	3	3	21.4	<.1	95.5	4.1	13.0
417441	1.3	426.7	4.5	8	.2	3.2	4	1981	.69	5	.2	<1	.2	219	.2	21.5	<.1	27	8.36	.015	7.1	9.8	.19	1866	.032	1.01	.099	.39	8.7	2.6	12	.3	12.4	.7	<.1	<1	3	51.0	.1	13.6	.1	5.6
417442	4.4	550.8	6.3	343	.5	9.1	4	387	.64	3	.3	<1	.1	1040	2.3	18.9	.1	38	.81	.018	.6	18.2	.11	508	.045	1.13	.235	.39	18.7	3.9	1	.4	1.5	.5	<.1	1	2	53.3	.1	14.2	.2	168.9
417443	1.0	7081.9	73.3	91336	10.6	12.1	13	662	2.02	6	.2	1	.3	108	1096.6	26.2	1.3	118	1.61	.056	1.9	16.6	.55	21	.105	3.45	.720	1.58	8.2	11.5	4	.5	4.3	1.5	.1	<1	10	41.3	3.8	47.9	.4	321.2
417444	3.0	269.3	3.3	321	.4	11.0	11	2024	1.38	30	.3	<1	.4	979	3.2	8.7	<.1	108	4.45	.094	4.7	15.4	.29	159	.170	4.62	1.726	2.06	12.3	22.2	10	.4	10.0	2.6	.1	<1	10	25.4	.3	50.2	.7	22.0
417445	4.1	54.8	29.3	325	1.2	3.7	5	435	2.82	102	.1	1	.3	46	4.3	10.1	<.1	123	.50	.042	1.0	21.1	.26	104	.139	2.95	.021	1.43	10.2	11.0	2	.5	2.2	1.2	.1	<1	10	51.5	.4	54.2	.4	165.5
417446	2.8	3657.7	4.0	73	1.5	7.6	14	4108	5.11	4	.1	<1	.1	172	1.1	40.3	<.1	37	12.78	.018	5.1	15.6	2.20	167	.043	.79	.013	.17	7.8	2.3	9	.2	9.8	.4	<.1	<1	9	38.2	.4	4.4	.1	13.8
417447	2.1	14.8	14.8	51	.2	3.0	2	817	.71	6	11.0	<1	16.8	56	.4	6.1	.3	7	.49	.006	9.4	7.8	.30	2587	.025	5.35	.038	3.68	6.9	50.8	19	9.0	38.9	41.1	5.4	3	3	49.2	<.1	150.2	4.4	4.7
417448	3.2	125.6	10944.3	10858	8.5	4.7	3	306	.29	7	2.1	<1	.5	1184	81.6	14.1	.3	4	.21	.007	.1	5.6	.04	167	.018	.79	.016	.58	8.4	11.9	<1	.9	5.3	3.4	.3	<1	<1	21.5	.3	13.0	.7	34.9
417449	12.5	3761.1	54.7	141	.8	16.0	30	2297	5.89	7	.5	<1	1.1	175	.7	2.6	.2	291	3.39	.180	5.9	25.4	1.54	85	.393	8.04	1.471	3.41	2.6	25.7	14	4.1	14.9	4.4	.2	1	28	13.1	1.0	102.9	.9	26.8
417450	112.5	224.5	31.7	191	.6	18.4	30	1154	8.18	6	.8	<1	.2	147	.5	2.3	.3	256	.61	.162	.3	19.8	2.36	17	.296	7.41	1.675	2.65	7.4	31.3	1	1.8	11.2	2.5	.2	<1	22	29.1	4.5	85.2	1.1	15.9
621333	1.4	21.4	6.1	56	<.1	7.9	4	2703	3.97	4	1.2	<1	3.1	100	.2	1.4	<.1	85	9.72	.080	17.6	4.4	1.25	623	.196	6.27	.975	2.57	2.6	24.7	35	.6	28.7	5.0	.3	<1	6	6.7	.1	80.9	1.1	1.5
621334	25.8	21.8	26.1	16	2.0	32.5	15	174	3.48	17	1.5	<1	.1	22	.2	4.7	<.1	51	.03	.006	<.1	39.9	.02	30	.006	.14	.024	.05	30.3	5.0	<1	.5	.6	.2	<.1	<1	1	4.8	1.9	1.5	.1	2.1
621335	33.6	31.5	13.3	33	1.4	41.7	43	855	1.74	14	2.1	<1	.1	28	.6	4.0	<.1	53	.22	.010	.7	46.8	.07	47	.009	.22	.020	.07	16.7	7.4	1	.4	4.5	.4	<.1	<1	<1	13.3	.9	2.1	.2	2.4
621336	1.2	6.8	4.4	32	.4	1.6	4	4968	1.54	19	.2	<1	.3	1453	.5	1.9	.1	35	26.80	.028	11.4	7.1	.85	174	.081	.96	.017	.41	2.1	8.3	29	.3	21.6	2.2	.1	<1	4	8.9	.4	13.7	.2	5.0
621337	1.1	4.5	4.5	27	.1	3.5	7	3643	4.97	5	.9	<1	1.6	76	.2	13.3	.1	86	8.29	.070	10.5	10.2	1.45	581	.178	3.63	.860	1.30	18.8	27.8	21	.4	13.3	4.3	.2	<1	5	25.2	.2	37.2	.9	2.8
621338	3.4	24.7	5118.7	18389	5.3	5.4	2	137	.33	2	3.4	<1	<.1	940	129.3	28.8	.2	4	.27	.016	.2	10.0	.04	90	.038	.71	.022	.48	13.0	14.1	1	.3	6.7	5.6	<.1	<1	1	23.5	.6	10.9	.5	5.5
621339	2.4	223.1	6.7	64	.2	5.4	2	207	.52	1	.2	<1	.1	2600	.5	4.2	<.1	25	.65	.019	.4	14.9	.15	416	.049	.87	.012	.27	5.2	5.3	1	.2	1.4	.7	<.1	<1	2	28.4	.2	9.6	.2	12.3
621340	6.2	117.5	31158.7	1973	112.2	9.6	2	146	.84	11	.2	<1	.1	310	23.4	81.2	.2	29	.13	.025	.3	34.8	.07	85	.056	1.48	.033	.61	25.2	7.8	1	.4	1.3	1.0	<.1	<1	2	61.5	.7	17.6	.3	44.7
RE 621340	6.3	117.8	32084.8	1949	111.7	10.9	2	140	.80	10	.3	<1	.1	309	25.0	82.2	.2	27	.13	.027	.3	33.5	.07	73	.057	1.47	.033	.61	26.3	8.2	1	.4	1.3	.9	<.1	<1	2	61.2	.6	17.1	.3	45.6
621341	5.2	60.8	10871.1	7740	5.3	8.1	6	627	.84	22	.2	<1	.4	275	64.7	34.0	.2	60	1.06	.035	3.1	38.3	.13	140	.103	2.13	.210	.90	11.6	13.5	7	.4	3.0	1.8	.1	1	6	61.4	.4	24.6	.4	29.5
621342	28.5	47.6	1207.5	3111	1.9	31.5	34	2192	4.09	1156	1.4	<1	.4	326	46.1	15.5	.1	108	7.99	.054	3.0	45.3	1.67	26	.139	3.26	.180	1.09	7.4	18.4	7	.4	5.7	1.4	.1	1	11	32.5	1.9	30.9	.6	24.9
621343	3.3	91.7	11964.1	8314	6.3	10.4	6	215	1.29	7	.2	<1	.3	92	83.9	26.1	.5	78	.46	.035	1.2	72.8	.56	107	.115	2.13	.208	.79	10.2	8.6	2	.4	1.6	1.0	<.1	<1	9	67.3	.4	26.4	.3	174.3
621344	70.4	526.3	97.6	1306	3.0	23.6	16	95	2.48	99	.9	<1	.8	89	19.5	15.3	.2	135	.26	.103	.7	95.7	.26	36	.182	3.66	.036	1.75	15.5	32.0	2	.4	2.1	2.3	.1	1	15	41.0	1.1	55.2	1.0	33.0
621345	3.5	70.9	6775.9	28929	3.6	4.3	3	493	.72	4	.2	<1	.3	55	311.7	19.8	.2	15	.85	.018	2.4	25.6	.25	144	.027	1.49	.108	.52	8.7	6.2	4	.2	2.0	.8	<.1	1	2	68.6	.5	16.6	.2	33.3
621346	6.6	120.3	15533.5	10321	12.1	8.4	2	172	.60	4	1	<1	.2	19	106.7	23.7	.3	8	.20	.012	.6	53.1	.09	122	.020	.85	.060	.31	20.6	4.8	1	.3	.7	.5	<.1	1	1	63.3	.3	9.7	.2	55.8
621347	1.9	217.7	58.6	114	.1	2.2	6	6952	7.56	3	2	<1	.4	432	9	1.5	<.1	56	19.91	.052	15.0	5.2	2.10	286	.079	2.69	.020	.80	1.8	11.0	23	.2	15.3	1.7	.1	<1	6	22.9	<.1	17.6	.3	6.0
621348	7.4	14.3	15.3	49	1.9	9.1	1	253	.91	36	<.1	4	<.1	1793	.6	11.2	<.1	14	.30	.006	.3	13.2	.09	360	.015	.51	.023	.14	21.6	2.9	1	.2	.8	.3	<.1	<1	1	43.1	.3	4.9	.1	6953.1
621349	1.2	2219.6	9.8	22	1.0	1.3	2	2535	3.61	2	1.5	1	3.3	288	.2	1.2	<.1	50	7.01	.084	9.8	5.8	1.53	999	.232	6.25	2.351	1.73	3.4	29.7	21	.6	17.1	6.3	.3	<1	5	9.8	.2	42.2	1.2	9.0
621350	6.3	51.9	16.4	30	.3	12.2	1	1298	2.83	6	.3	<1	.4	233	.3	2.6	.2	31	3.45	.014	2.2	50.6	1.11	334	.051	1.12	.030	.44	20.1	8.9	8	.5	4.0	1.2	.1	<1	4	25.7	.2	14.1	.3	8.0
STANDARD DS14/DS4	7.5	132.7	39.1	181	.4	39.9	14	1056	4.04	24	7.2	<1	6.3	246	5.5	6.7	5.5	142	1.74	.105	26.8	262.9	1.01	1058	.429	7.29	1.843	2.02	7.8	49.1	50	6.4	14.6	11.9	.7	2	10	21.7	<.1	68.4	1.6	26.0

Sample type: ROCK R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Keewatin Consultants PROJECT Horn East File # A203639R
900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Adam Travis

SAMPLE#	Au** gm/mt
417429	1.22
621348	7.42
STANDARD AU-1	3.34

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: NOV 8 2002 **DATE REPORT MAILED:** Nov 15/02 **SIGNED BY**.......... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Keewatin Consultants PROJECT Horn East File # A203640 Page 1

900 - 475 Howe St., Vancouver BC V6C 2B3 Submitted by: Jill Moore

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
G-1	1.2	2.0	2.1	36	<.1	4.1	4.0	522	1.71	.7	3.0	.7	5.1	69	<.1	<.1	.1	34	.54	.109	7	13.0	.57	208	.123	2	.79	.066	.46	2.1	<.01	2.7	.3	<.05	5
3000E 3500N	1.8	76.8	42.5	84	.4	25.4	26.2	4918	6.11	71.8	.6	471.5	.9	30	.7	1.8	.1	84	.49	.158	19	19.5	.82	703	.067	3	2.35	.010	.10	.2	.08	8.5	.1	.09	8
3000E 3475N	3.1	57.6	53.6	97	.3	14.4	26.5	5780	7.18	76.5	.8	208.0	.9	22	.6	1.9	.1	81	.48	.188	19	14.2	.68	617	.061	2	1.90	.019	.09	.2	.10	5.2	.1	.14	10
3000E 3450N	2.0	75.8	14.0	78	.5	41.6	19.9	2569	5.30	42.0	.9	32.1	1.3	25	.3	1.1	.1	70	.72	.137	23	21.6	.86	480	.090	1	2.25	.019	.08	.1	.08	7.3	.1	.08	8
3000E 3425N	1.5	78.2	31.7	74	1.0	19.0	18.6	3052	4.91	35.2	.4	139.2	.6	44	.8	1.4	.1	74	1.54	.118	18	16.2	.79	616	.041	3	1.57	.013	.10	.1	.15	10.4	.1	.12	6
3000E 3400N	1.7	111.1	11.8	114	.3	19.6	22.3	1629	5.13	11.0	.6	7.7	.7	35	.8	1.0	.1	134	1.37	.116	18	15.9	1.25	206	.068	6	2.22	.011	.09	<.1	.13	11.8	.1	.11	8
3000E 3375N	2.2	77.6	121.4	138	1.0	21.6	21.2	2659	5.66	29.6	.4	42.6	.7	32	1.4	2.3	.1	109	1.14	.099	17	16.0	1.21	305	.040	4	1.97	.011	.09	.1	.13	11.7	.2	.08	8
3000E 3350N	2.0	61.9	24.8	74	.6	16.3	18.7	2532	4.74	20.3	.4	18.4	.6	40	.5	1.2	.1	89	1.44	.122	18	16.5	.86	623	.075	3	1.78	.012	.08	.1	.09	8.0	.1	.11	8
3000E 3325N	1.8	128.1	23.9	178	.9	37.6	19.5	1814	4.48	32.8	.6	12.4	.7	44	1.4	1.9	.1	95	1.39	.131	32	37.8	1.08	476	.054	4	2.01	.013	.09	.1	.23	13.2	.2	.10	6
3000E 3300N	2.6	60.4	19.6	139	.8	53.1	35.6	2597	6.07	36.2	.7	23.6	1.4	39	1.0	3.0	.2	131	.81	.172	35	78.1	1.97	624	.032	2	2.96	.010	.12	.1	.13	12.7	.2	.06	10
3000E 3275N	2.3	99.4	61.7	459	.5	22.3	27.5	3156	4.08	48.5	.4	8.6	.4	86	6.2	2.1	.1	113	2.57	.172	28	35.7	.89	975	.028	4	1.67	.009	.08	.1	.16	10.8	.3	.20	7
3000E 3250N	1.7	126.2	12.8	103	.4	59.7	27.6	3580	5.73	16.8	.5	19.4	2.3	52	.6	1.1	.1	90	1.25	.117	36	30.1	1.50	496	.232	2	2.15	.042	.13	.1	.06	14.1	.1	.07	9
3000E 3225N	1.3	103.7	11.6	46	.3	6.6	24.3	3025	3.75	8.1	.4	5.9	.2	66	.6	.9	<.1	147	2.73	.154	9	14.2	.83	91	.047	9	1.51	.014	.03	.1	.10	8.4	.1	.38	7
RE 3000E 2775N	3.2	58.4	8.4	89	.1	30.0	18.4	1835	5.51	12.4	1.3	2.9	1.3	11	.1	.8	.1	72	.14	.177	25	30.6	.61	202	.099	2	3.05	.016	.08	.1	.03	6.5	.1	<.05	13
3000E 3200N	1.6	87.4	21.1	91	1.0	22.7	17.3	2345	4.85	24.4	1.0	224.1	1.5	33	.6	1.3	.1	81	.94	.121	36	17.6	.83	493	.070	3	2.12	.019	.14	.2	.08	9.0	.1	.10	9
3000E 3175N	2.2	79.4	16.9	164	.4	35.4	24.3	2030	5.78	18.8	1.1	5.2	2.1	36	1.3	2.3	.1	108	.91	.118	31	27.4	1.13	352	.126	3	2.84	.021	.08	.1	.07	11.2	.1	.06	12
3000E 3150N	2.2	37.6	7.6	147	.2	49.0	17.6	919	5.01	12.5	1.6	5.0	2.0	31	.6	.8	.1	79	.71	.103	30	52.4	.90	234	.326	1	4.03	.026	.03	.1	.06	9.5	.1	.10	13
3000E 3125N	2.9	23.1	12.0	59	.2	13.7	9.1	1346	4.83	13.0	1.2	2.5	.7	48	.2	.6	.2	73	1.22	.120	15	29.2	.44	318	.149	1	2.25	.017	.03	.2	.04	2.9	.1	.12	17
3000E 3100N	3.1	64.9	24.9	120	.4	35.4	24.6	2884	6.51	38.9	.7	231.6	.7	31	1.0	2.1	.1	121	.57	.201	20	32.0	1.16	557	.055	1	2.62	.008	.05	.1	.09	9.7	.2	.08	8
3000E 3075N	7.3	43.7	9.9	170	.3	77.4	17.8	359	4.88	17.5	3.7	1.7	2.8	114	1.1	1.7	.1	114	.91	.115	25	98.8	1.25	327	.302	3	2.87	.029	.06	.1	.09	7.5	.1	<.05	11
3000E 3050N	2.7	71.9	9.2	141	.5	67.1	22.5	979	5.37	13.6	3.1	9.1	3.6	97	.4	1.5	.1	75	1.07	.074	42	45.2	1.32	409	.468	3	2.54	.038	.06	<.1	.14	9.1	.1	<.05	9
3000E 3025N	6.4	48.0	44.9	306	.3	60.2	13.4	321	4.89	17.7	2.1	3.4	2.7	75	1.5	1.7	.1	79	.85	.109	25	41.6	1.04	218	.309	3	2.37	.030	.07	.1	.09	7.8	.1	<.05	10
3000E 3000N	10.9	167.4	159.1	326	1.0	37.0	27.5	4800	6.61	37.0	3.3	33.5	2.7	85	3.7	4.1	.1	79	.95	.107	66	29.1	.90	299	.283	3	3.09	.021	.06	.1	.56	14.2	.2	.07	9
3000E 2950N	3.0	35.7	7.9	224	.1	10.9	11.6	1365	3.97	11.2	.8	4.0	.4	140	.7	.9	.1	58	1.62	.182	12	15.9	.58	209	.025	3	1.95	.008	.09	.1	.04	3.6	<.1	.16	7
3000E 2925N	1.4	54.6	6.7	107	.2	10.5	10.2	1599	2.91	7.3	.6	5.0	.3	85	.8	.8	.1	49	2.73	.325	13	16.2	.48	614	.018	5	1.42	.005	.08	.1	.07	4.1	.1	.23	5
3000E 2900N	1.9	88.2	9.0	84	.3	33.2	20.9	2152	5.30	11.4	1.2	4.4	1.3	22	.2	.7	.1	81	.28	.161	35	32.5	.70	594	.134	1	3.50	.016	.06	.1	.11	8.0	.1	.06	12
3000E 2875N	1.7	42.8	8.3	111	.2	35.9	10.1	618	5.04	9.5	2.0	.9	1.8	36	.1	.5	.3	63	.48	.118	41	33.4	.56	315	.198	2	3.73	.018	.05	<.1	.05	5.1	.1	.16	17
3000E 2850N	1.6	31.4	4.7	84	.1	51.1	17.8	913	4.97	8.0	1.9	2.0	3.7	25	.1	.3	.1	67	.46	.089	41	31.9	.78	278	.366	<1	5.18	.025	.04	.2	.05	5.6	.1	<.05	16
3000E 2825N	3.2	72.0	7.8	82	.1	27.7	15.2	1285	5.12	13.2	1.3	3.2	1.1	37	.2	.8	.1	69	.43	.156	23	27.0	.59	327	.071	1	3.07	.015	.08	.1	.05	6.3	.1	<.05	12
3000E 2800N	3.1	77.6	8.1	73	.2	21.8	15.6	1209	5.36	14.1	1.3	2.2	1.0	42	.1	.8	.1	71	.41	.170	28	27.7	.57	300	.071	3	3.30	.017	.10	.1	.06	7.3	.1	<.05	13
3000E 2775N	3.1	57.2	8.9	90	.1	29.5	18.9	1925	5.43	12.9	1.3	3.5	1.4	11	.1	.8	.2	74	.15	.173	25	28.8	.59	202	.097	2	3.00	.017	.08	.2	.04	6.3	.1	<.05	13
3000E 2750N	2.9	76.6	8.6	91	.1	33.6	24.1	2672	5.95	13.8	1.0	1.7	1.5	10	.2	1.0	.1	82	.17	.178	20	26.5	.76	205	.087	2	2.80	.012	.09	.1	.05	7.2	.1	<.05	11
3000E 2725N	2.4	80.2	7.5	65	.2	19.3	25.0	2937	5.09	12.8	.5	1.4	1.0	49	.3	1.1	.1	70	.41	.190	18	12.8	.71	234	.019	1	1.67	.010	.10	<.1	.05	7.5	.1	<.05	5
3000E 2700N	3.2	98.9	11.3	69	.2	27.8	28.2	2350	5.96	19.2	.5	1.2	1.4	38	.2	1.8	.1	78	.64	.240	20	17.9	.78	319	.033	3	1.81	.011	.10	.1	.07	8.3	.1	<.05	7
3100E 3500N	2.6	66.7	34.2	145	.8	59.1	59.1	3990	6.06	54.7	.7	8.1	.9	65	1.7	3.7	.1	135	1.28	.166	60	90.0	.83	281	.054	3	2.29	.009	.09	.2	.22	19.0	.4	.12	10
STANDARD DS4	6.9	130.2	32.8	151	.3	35.7	11.9	769	3.17	25.0	6.6	28.4	3.9	29	5.3	5.1	5.2	72	.55	.097	17	157.7	.58	143	.092	2	1.73	.034	.17	4.1	.27	3.9	1.1	.07	6

GROUP 1DA - 10.0 GM SAMPLE LEACHED WITH 60 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 200 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 9 2002 **DATE REPORT MAILED:** Sept 21/02 **SIGNED BY** ....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data FA

Keewatin Consultants PROJECT Horn East FILE # A203640 Page 2

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3100E 3475N	3.0	44.4	15.9	155	.1	52.2	23.9	1892	6.06	17.1	.8	6.9	.7	15	.5	2.3	.2	131	.22	.107	14	68.2	1.02	124	.162	1	2.93	.016	.07	.2	.04	5.3	.2	.14	15
3100E 3450N	2.8	47.7	17.3	157	.2	57.6	27.9	2030	5.55	21.6	.8	5.6	.8	28	.6	2.6	.1	119	.51	.119	23	68.9	1.09	194	.086	1	2.95	.017	.05	.1	.08	6.4	.2	.11	12
3100E 3425N	2.6	86.1	28.9	201	.6	68.8	41.7	2579	6.08	32.5	.7	6.4	.6	61	2.5	3.9	.1	201	1.95	.178	34	109.0	1.74	385	.117	5	2.43	.018	.10	.1	.13	13.3	.3	.16	11
3100E 3400N	2.2	99.1	23.5	255	.7	55.6	43.8	3285	4.76	30.5	.3	6.4	.7	82	3.6	8.1	.1	100	2.62	.192	36	58.6	1.05	404	.010	6	1.79	.008	.13	.1	.12	11.8	.2	.15	6
3100E 3375N	1.6	86.6	18.3	112	1.4	65.3	22.9	1255	4.79	22.3	.4	11.0	.6	77	.7	5.5	.1	59	1.95	.125	37	48.2	.92	426	.018	3	1.66	.007	.11	<.1	.24	11.4	.1	.11	5
3100E 3350N	9.1	136.1	21.0	97	1.0	43.4	38.6	2626	6.86	16.8	.4	7.3	.8	39	.4	4.0	.1	127	.74	.176	38	72.1	1.96	730	.009	2	2.73	.007	.17	<.1	.18	17.3	.2	.08	8
3100E 3325N	1.9	88.2	14.5	81	.7	32.1	20.3	1211	4.56	16.4	.4	12.3	.4	66	.4	2.3	.1	109	2.21	.122	24	53.5	1.41	414	.035	4	2.03	.014	.08	<.1	.16	7.9	.1	.16	8
3100E 3300N	1.6	66.1	15.7	104	.5	34.9	21.1	1601	4.74	16.0	.3	13.7	.4	50	.5	2.0	.1	95	1.92	.095	15	40.2	1.18	377	.042	3	1.91	.012	.08	.1	.12	7.8	.1	.14	7
3100E 3275N	2.2	81.9	13.8	88	.3	41.9	18.7	1168	4.78	13.3	.6	4.8	.5	43	.5	2.4	.1	112	1.29	.108	22	49.5	1.47	278	.034	2	2.15	.012	.11	<.1	.14	7.9	.1	.12	8
3100E 3250N	1.6	81.3	12.8	74	.5	32.4	17.3	1557	4.12	15.0	1.0	45.9	.5	64	.4	1.6	.1	92	2.11	.126	25	42.6	1.00	426	.072	2	2.03	.016	.07	<.1	.14	7.1	.1	.18	7
RE 3100E 2950N	2.7	83.2	21.4	74	.7	22.2	33.9	2117	4.50	46.2	.4	6.6	.7	19	.4	3.4	.1	39	.47	.212	17	10.1	.51	221	.022	2	1.52	.008	.13	.1	.07	6.3	.1	<.05	5
3100E 3225N	1.8	106.0	12.4	116	.6	41.1	18.4	1002	4.13	14.9	.7	7.7	.5	71	.9	2.1	.1	85	2.50	.118	35	45.5	.99	345	.065	4	1.85	.014	.07	<.1	.19	8.4	.2	.16	7
3100E 3200N	3.0	91.2	11.1	108	.6	36.8	31.8	2053	7.21	61.0	.2	5.5	1.1	33	.1	1.8	.1	125	.62	.195	20	39.3	2.75	606	.001	1	4.01	.004	.13	<.1	.07	14.6	.1	<.05	9
3100E 3175N	4.3	48.4	99.6	337	.4	37.3	34.4	3304	6.49	127.6	.9	6.5	.8	9	1.6	3.2	.2	112	.15	.197	27	46.9	.96	219	.128	2	3.17	.017	.07	.1	.08	7.4	.4	.06	13
3100E 3150N	2.6	119.1	11.5	125	.4	28.7	11.7	1182	4.64	11.7	1.1	10.7	.2	25	.9	.8	.2	87	.28	.176	28	41.2	.46	847	.062	2	2.82	.008	.06	.1	.05	3.4	.1	.11	13
3100E 3125N	1.2	139.1	6.5	66	.1	61.6	20.9	1191	5.51	10.7	1.3	4.1	2.0	20	.4	1.2	.1	86	.36	.107	33	69.6	1.30	769	.181	2	4.25	.020	.10	.1	.05	20.4	.1	.06	10
3100E 3100N	2.9	18.3	6.4	81	.2	24.5	7.2	254	5.19	4.9	1.4	5.5	2.0	9	.3	.2	.1	90	.18	.106	16	61.8	.25	88	.427	1	4.72	.028	.04	.2	.08	5.1	.1	.14	18
3100E 3075N	3.1	18.3	8.8	70	.1	24.9	11.8	1578	5.74	8.5	1.3	.6	.9	21	.2	.5	.2	70	.49	.103	17	33.6	.47	264	.162	2	3.60	.011	.04	.2	.07	3.4	.1	.14	19
3100E 3050N	2.9	42.6	10.0	109	.1	27.0	9.7	957	4.69	10.9	2.2	3.2	2.5	15	.2	.6	.3	53	.35	.099	38	23.8	.42	167	.177	1	4.07	.023	.06	.3	.06	4.2	.1	.12	19
3100E 3025N	6.8	46.1	33.4	92	.2	22.8	27.8	3621	6.79	43.6	.7	82.3	.2	15	.4	2.4	.1	94	.23	.199	13	19.2	.63	482	.027	2	2.23	.006	.07	.1	.10	2.3	.1	.08	8
3100E 3000N	3.5	23.7	10.1	124	.3	20.9	17.8	2208	5.12	8.3	1.3	2.9	.5	16	.5	.7	.2	69	.29	.125	19	33.4	.34	304	.130	2	2.40	.013	.09	.1	.07	3.0	.1	.15	13
3100E 2975N	2.5	37.4	7.4	89	.1	32.3	13.9	1911	4.63	8.2	1.3	5.8	1.3	14	.3	.4	.2	58	.33	.109	24	27.7	.58	164	.176	2	3.97	.017	.07	.2	.07	4.9	.1	.14	15
3100E 2950N	2.6	84.4	22.7	74	.7	22.8	33.9	2103	4.78	47.7	.4	6.3	.8	20	.4	3.4	.1	42	.50	.220	18	11.1	.52	232	.020	3	1.71	.008	.13	<.1	.08	6.6	.1	<.05	5
3100E 2925N	1.7	100.9	10.4	71	.1	30.3	21.5	2160	5.28	16.4	.7	8.6	.9	10	.3	1.1	.1	85	.21	.147	13	24.3	.76	298	.039	3	2.71	.007	.10	.1	.06	8.1	.1	<.05	7
3100E 2900N	2.8	41.1	7.3	96	.1	44.4	19.4	1336	5.23	10.3	1.9	5.4	3.0	11	.1	.5	.1	75	.24	.136	35	39.7	.66	125	.287	2	4.80	.028	.05	.2	.05	6.5	.1	.09	17
3100E 2875N	3.2	53.2	8.3	87	.1	35.2	18.9	1489	5.29	13.1	1.3	2.3	1.7	9	.1	.7	.1	79	.15	.159	31	35.8	.65	140	.184	2	3.33	.022	.07	.1	.05	7.3	.1	.08	14
3100E 2850N	2.6	59.5	7.8	98	.1	50.6	22.7	1838	5.57	12.2	1.0	1.5	2.1	11	.2	.8	.1	85	.17	.151	22	35.3	1.02	192	.179	3	2.59	.024	.09	.1	.04	7.2	.1	<.05	10
3100E 2825N	2.8	52.9	8.5	89	.1	41.6	20.6	1714	5.32	12.8	1.1	2.2	2.0	13	.2	.8	.1	80	.20	.163	22	33.3	.82	220	.165	3	2.95	.024	.08	.1	.04	7.2	.1	<.05	12
3100E 2800N	2.7	55.0	8.8	95	.1	41.7	20.4	1880	5.40	12.6	1.2	1.0	2.2	14	.2	.9	.1	81	.25	.164	22	34.0	.80	211	.187	2	3.00	.025	.08	.1	.04	7.2	.1	<.05	12
3100E 2775N	2.7	44.1	7.3	105	.1	61.2	24.0	1792	5.56	10.0	1.1	4.3	2.5	12	.2	.7	.1	80	.26	.140	22	40.0	1.17	179	.243	1	3.08	.026	.07	.1	.04	5.6	.1	<.05	12
3100E 2750N	2.5	31.5	8.9	70	.2	17.7	8.5	673	4.14	8.7	1.2	.8	.3	10	.2	.6	.1	62	.13	.115	18	32.2	.37	173	.106	2	3.28	.015	.06	.1	.08	2.8	.1	.08	14
3100E 2725N	3.6	26.9	8.9	60	.2	19.6	11.9	1776	4.72	11.7	1.3	3.2	.3	9	.2	.7	.3	59	.10	.150	21	28.4	.36	147	.060	2	2.77	.013	.06	.2	.07	1.9	.1	.08	16
3100E 2700N	4.1	33.2	10.1	89	.1	17.9	12.0	1273	5.04	12.9	1.5	5.4	.4	11	.1	.9	.2	58	.11	.115	25	26.9	.36	168	.062	2	3.09	.015	.06	.2	.06	2.2	.1	.09	17
3200E 3500N	4.2	89.3	23.5	204	.7	30.6	18.9	1671	5.06	34.8	.5	8.9	1.2	25	1.3	2.6	.1	97	.51	.183	27	33.6	1.29	396	.010	3	2.32	.009	.11	<.1	.17	7.9	.2	<.05	8
STANDARD DS4	6.7	119.3	33.0	146	.3	36.1	12.0	819	3.13	22.1	6.4	27.4	3.7	27	5.4	5.1	4.9	78	.57	.096	15	173.5	.57	148	.086	2	1.70	.032	.16	4.3	.28	3.7	1.1	.08	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

Keewatin Consultants PROJECT Horn East FILE # A203640

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3200E 3475N	2.1	29.8	8.6	66	.1	11.8	11.7	3286	3.43	12.2	.4	5.9	.7	16	.3	.9	.1	45	.30	.138	28	10.1	.57	574	.004	1	1.96	.006	.08	.1	.04	3.3	.1	<.05	5
3200E 3450N	3.5	22.4	13.7	63	.1	12.8	12.7	3716	3.90	105.7	.5	51.6	.9	6	.4	1.8	.1	33	.10	.128	18	13.8	.47	276	.005	2	1.83	.005	.08	<.1	.04	3.1	.2	<.05	4
3200E 3425N	1.9	16.4	8.1	40	.2	7.0	12.4	1652	3.12	44.3	.3	127.7	.7	17	.1	1.2	.1	30	.17	.087	16	7.8	.37	897	.003	3	1.51	.004	.06	.1	.05	2.4	.1	<.05	4
3200E 3400N	3.7	34.8	11.7	105	.1	37.2	19.9	1922	4.97	15.3	.5	2.8	.7	17	.2	1.4	.1	100	.22	.128	12	45.4	.87	290	.056	1	2.06	.010	.06	.1	.06	4.4	.1	<.05	9
3200E 3375N	3.0	31.5	8.5	92	.1	38.0	14.1	1691	4.45	13.1	1.7	2.4	3.0	11	.6	.6	.2	49	.21	.111	28	29.2	.59	283	.164	<1	4.17	.032	.05	.3	.07	4.5	.1	.10	16
3200E 3350N	1.2	31.7	3.3	68	.1	38.1	23.5	964	4.61	5.1	1.2	3.7	2.9	12	.6	.2	.1	79	.38	.114	25	39.0	.86	173	.477	<1	7.38	.028	.02	.2	.05	6.8	<.1	.08	17
3200E 3325N	3.1	39.9	15.2	75	.2	28.3	30.8	3395	5.60	12.0	.9	4.0	.9	14	.7	1.5	.2	134	.19	.144	20	62.2	.60	331	.089	1	3.13	.011	.04	.2	.10	7.1	.4	.07	12
3200E 3300N	2.4	45.8	22.3	114	.2	39.6	30.8	1893	6.28	73.6	.6	3.5	.4	10	.7	2.9	.1	141	.18	.115	16	63.1	1.01	125	.078	2	3.37	.008	.05	.1	.06	5.0	.1	.08	11
3200E 3275N	2.2	38.1	16.4	98	.2	28.7	28.2	2337	6.03	37.7	.6	796.4	1.4	16	.3	1.3	.6	117	.28	.117	15	42.1	1.03	338	.095	2	3.19	.010	.06	.1	.06	6.4	.1	<.05	11
3200E 3250N	2.9	30.9	18.1	146	.1	18.5	18.1	2520	5.63	22.5	.4	7.7	1.4	12	.5	1.0	.2	143	.16	.084	10	36.8	.78	447	.147	1	2.04	.009	.10	.1	.04	4.5	.1	<.05	13
3200E 3225N	2.0	30.4	15.6	338	.2	25.0	24.1	1832	4.64	17.6	1.2	4.6	2.3	29	1.2	.9	.1	79	.43	.149	18	22.0	.54	326	.241	1	6.81	.014	.04	.2	.13	6.0	.1	.13	15
3200E 3200N	2.5	33.0	16.0	207	.1	45.2	24.5	1995	6.66	19.5	1.0	1.3	1.1	11	2.7	1.1	.1	119	.19	.094	16	53.0	.93	223	.247	1	3.39	.014	.05	.1	.06	6.7	.1	.11	13
3200E 3175N	3.0	26.0	19.2	112	.1	22.3	25.1	6589	6.49	12.0	.8	6.4	2.3	57	.9	.5	.1	89	.80	.131	19	32.4	.51	390	.249	2	3.03	.014	.08	.2	.06	5.4	.1	.06	14
3200E 3150N	2.2	68.3	8.0	134	.2	28.6	9.2	459	4.26	11.2	3.1	3.3	2.3	67	.8	2.1	.2	57	1.36	.123	31	37.3	.47	397	.201	3	3.64	.023	.05	.1	.20	6.9	.1	.16	14
3200E 3125N	2.4	67.7	12.3	116	.2	21.7	19.5	2437	4.83	17.5	1.0	5.6	.5	53	.5	1.7	.1	81	1.12	.141	16	21.5	.73	404	.027	3	2.54	.009	.09	.1	.08	6.1	.1	.06	7
3200E 3100N	4.5	114.5	7.2	93	.5	32.7	21.2	2711	6.07	19.8	1.7	7.6	.6	60	.5	2.3	.1	82	.97	.120	34	30.3	.66	499	.041	3	2.45	.012	.12	<.1	.18	21.7	.1	.09	7
3200E 3075N	4.7	76.5	9.9	119	.6	42.0	21.8	1654	4.95	14.0	1.5	3.5	1.4	71	.3	1.9	.1	60	1.18	.136	24	28.1	.80	401	.133	3	1.87	.023	.10	<.1	.14	8.2	.1	.10	7
RE 3200E 3075N	4.6	74.4	10.0	115	.6	42.8	22.4	1602	5.22	14.2	1.5	4.1	1.5	74	.3	1.9	.1	60	1.26	.148	24	27.4	.86	405	.138	4	2.01	.024	.10	<.1	.15	8.2	.1	.12	7
3200E 3050N	5.5	84.9	19.9	90	.5	23.2	17.8	1633	4.91	17.4	.4	2.4	.2	59	.4	3.6	.3	38	.44	.244	6	9.9	.19	422	.007	2	1.03	.008	.20	<.1	.14	2.9	.5	.19	4
3200E 3025N	4.4	108.7	13.1	77	.7	23.7	26.5	1710	5.91	15.0	.4	7.2	1.1	54	.3	3.0	.1	94	.80	.211	13	7.1	.81	347	.002	2	2.29	.008	.13	<.1	.24	10.7	.2	<.05	6
3200E 3000N	3.5	101.3	16.5	91	.4	34.7	26.2	4087	5.88	17.1	.6	5.5	1.4	31	.6	1.7	.1	88	.54	.227	22	27.0	.85	471	.090	3	2.24	.012	.10	.1	.14	12.0	.2	<.05	7
3200E 2975N	2.4	84.1	10.0	91	.3	24.0	21.2	3059	5.30	14.8	.8	3.0	.6	13	.3	1.0	.1	77	.31	.244	22	24.2	.64	290	.068	2	2.86	.012	.09	.1	.08	7.1	.1	<.05	9
3200E 2950N	2.0	90.0	7.0	77	<.1	45.7	24.9	2023	5.73	11.9	.8	3.2	1.8	11	.2	1.0	.1	88	.26	.146	17	34.2	.86	288	.142	2	3.55	.011	.08	.1	.04	6.9	.1	<.05	9
3200E 2925N	2.7	40.2	6.8	76	.1	26.0	13.4	978	5.31	11.5	1.0	1.2	.8	6	.1	.7	.1	78	.10	.103	17	31.1	.60	131	.066	2	3.49	.011	.07	.1	.06	4.4	.1	<.05	11
3200E 2900N	2.5	23.2	6.4	83	<.1	43.2	14.6	739	4.97	7.7	2.0	5.5	3.1	14	.1	.4	.2	61	.32	.104	36	34.6	.60	129	.296	3	5.29	.032	.05	.2	.03	5.0	.1	.08	17
3200E 2875N	1.9	68.0	7.6	81	.1	27.9	19.4	2317	5.28	19.2	.8	.9	.4	13	.2	.9	.1	91	.29	.180	19	30.6	.66	392	.060	2	3.03	.011	.08	.1	.07	6.5	.1	<.05	9
3200E 2850N	2.4	46.8	5.2	106	.1	62.7	22.9	1433	5.58	8.2	1.2	3.6	2.6	14	.2	.5	.1	75	.30	.136	27	41.9	1.00	130	.303	1	3.45	.032	.06	.1	.04	6.6	.1	<.05	12
3200E 2825N	3.0	67.7	16.8	145	.1	17.3	18.8	1966	5.52	45.1	.7	2.3	.5	10	.5	1.5	.1	77	.23	.156	15	19.0	.59	250	.019	3	2.92	.009	.07	.1	.08	4.4	.1	<.05	9
3200E 2800N	2.6	26.6	8.5	78	.2	15.0	7.2	555	4.38	8.3	1.3	3.4	.6	6	.2	.7	.1	61	.08	.124	20	34.0	.29	98	.121	1	4.24	.025	.05	.2	.08	3.5	.1	.11	16
3200E 2775N	2.5	38.3	7.9	116	.1	36.0	17.0	1268	4.68	13.0	.9	2.6	1.1	14	.3	1.0	.1	63	.28	.110	20	27.6	.61	202	.108	2	3.59	.016	.07	.2	.06	4.6	.1	.07	12
3200E 2750N	3.4	50.4	19.9	153	.2	25.1	19.9	2022	5.42	20.9	.6	1.5	.3	20	.4	1.7	.1	85	.26	.127	14	26.6	.56	256	.062	1	2.38	.012	.06	.1	.07	3.9	.2	.11	12
3200E 2725N	10.3	121.2	56.1	248	1.8	26.4	37.1	2577	5.76	153.6	.8	8.7	.8	165	2.1	8.2	.1	61	.87	.197	12	3.8	.32	358	.004	3	.99	.005	.14	<.1	.22	10.8	.9	<.05	3
3200E 2700N	17.0	221.8	31.0	106	2.8	56.9	48.9	2433	6.89	62.0	.6	7.8	1.9	135	.7	8.3	.1	71	.84	.260	20	12.8	.49	508	.012	3	1.19	.008	.16	<.1	.24	12.6	.5	.11	4
3300E 3500N	2.0	24.8	11.2	71	.1	15.2	17.1	2062	5.28	14.0	.4	1.4	.6	14	.2	.9	.1	79	.27	.127	11	19.9	.59	324	.030	1	2.47	.010	.08	.1	.06	3.3	.1	<.05	9
STANDARD DS4	6.7	126.9	30.8	154	.3	35.9	11.5	761	3.16	24.0	6.3	30.7	3.8	28	5.2	5.2	5.2	75	.54	.092	16	162.6	.60	148	.085	2	1.79	.034	.16	4.4	.27	3.9	1.1	.07	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3300E 3475N	2.2	25.0	6.4	106	.1	33.1	16.8	947	5.37	7.4	2.5	5.0	4.0	18	.3	.3	.2	79	.27	.088	43	35.9	.59	218	.401	<1	5.22	.024	.03	.3	.05	5.1	.1	.07	19
3300E 3450N	4.2	14.9	26.3	78	.4	15.0	10.9	1476	3.97	7.5	.9	2.2	1.9	9	.3	.6	.3	68	.12	.099	12	23.9	.33	97	.255	<1	1.54	.020	.06	.2	.14	2.2	.1	<.05	16
3300E 3425N	3.7	33.2	13.2	144	.2	30.3	18.6	1592	6.42	6.0	1.3	.9	1.8	17	.7	.6	.2	122	.23	.104	16	51.3	.57	303	.399	1	2.53	.012	.05	.1	.07	4.4	.1	.06	17
3300E 3400N	2.0	51.2	4.8	112	.1	74.2	18.3	933	5.05	7.2	1.9	3.6	4.9	13	.1	.3	.1	56	.27	.065	42	32.2	1.05	211	.300	1	3.63	.028	.04	.1	.06	4.4	.1	<.05	14
3300E 3375N	3.0	30.6	9.3	111	.2	26.1	13.4	1936	4.98	8.2	2.1	1.8	2.6	53	.3	.7	.2	43	.89	.102	34	20.3	.56	480	.148	1	2.67	.021	.08	.3	.07	4.1	.1	.06	11
3300E 3350N	1.7	68.4	7.7	120	.1	37.0	16.0	1635	4.27	12.1	1.7	2.1	1.2	65	.7	.9	.1	67	1.10	.107	29	34.6	.80	440	.137	1	2.41	.019	.05	.1	.09	6.4	.1	.07	9
3300E 3325N	1.9	32.9	5.9	66	.1	26.6	14.5	1636	4.43	6.4	.9	<.5	1.5	83	.1	.6	.1	50	.94	.128	20	18.5	.57	401	.076	2	2.41	.016	.07	.1	.04	4.8	.1	<.05	8
3300E 3300N	5.8	34.8	11.9	68	.1	12.9	18.6	1321	5.81	13.3	.6	3.0	.3	39	.1	1.2	.1	83	.52	.152	11	17.7	.56	224	.022	<1	2.15	.008	.06	.1	.06	2.3	.1	<.05	10
3300E 3275N	3.7	19.9	9.9	128	.1	15.3	13.4	2216	5.35	11.8	1.1	1.0	.4	33	.3	.9	.1	70	.52	.103	10	36.7	.27	140	.101	<1	1.97	.016	.06	.1	.05	2.1	.1	.08	12
3300E 3250N	1.7	40.8	5.1	84	.3	41.8	14.7	1023	4.64	6.1	2.1	2.9	1.4	43	.1	.5	.1	63	.63	.105	40	31.7	.61	252	.220	1	3.89	.021	.04	<.1	.10	6.0	<.1	.12	11
3300E 3225N	1.6	51.2	5.2	103	.3	29.0	13.0	1474	3.27	4.9	1.9	.7	.6	162	.3	.7	.1	43	2.79	.105	20	22.2	.56	238	.135	1	1.88	.018	.04	<.1	.13	4.1	.1	.16	7
3300E 3200N	4.7	38.4	12.3	99	.4	16.5	27.3	6293	6.82	6.9	1.4	3.8	.7	27	.4	1.0	.1	119	.39	.150	14	33.9	.30	218	.197	<1	2.10	.017	.09	.1	.15	4.3	.1	.16	14
3300E 3175N	3.4	70.9	12.0	98	.3	45.0	29.4	2767	6.86	31.6	1.2	7.6	2.4	18	.3	2.1	.1	78	.33	.193	29	31.0	.71	212	.202	2	3.07	.021	.11	.1	.10	10.4	.3	<.05	10
3300E 3150N	1.4	58.5	10.2	55	.1	14.1	15.4	4572	6.06	5.5	.7	1.7	.1	39	.2	.9	.1	74	.30	.184	11	19.3	.39	939	.026	1	2.24	.006	.12	<.1	.14	3.4	.1	.10	6
3300E 3125N	6.4	85.9	20.4	66	.7	22.0	16.6	1504	4.57	26.4	.6	3.8	.5	22	.3	5.5	.1	50	.33	.193	19	10.4	.41	241	.009	2	1.42	.006	.13	<.1	.13	6.9	.3	<.05	4
3300E 3100N	5.9	84.6	18.3	124	.4	28.5	32.9	4049	7.17	15.8	.8	3.6	.3	13	.4	2.5	.2	58	.18	.216	15	18.2	.49	219	.020	<1	2.02	.008	.11	<.1	.10	4.1	.2	<.05	7
3300E 3075N	3.4	90.8	24.5	31	2.1	17.5	57.0	1769	5.02	34.9	.3	11.4	.9	34	.1	5.1	.1	28	.99	.238	10	2.2	.24	259	.002	5	.78	.005	.24	<.1	.24	6.7	.3	.25	2
3300E 3050N	1.8	82.7	11.6	82	.3	18.9	20.1	2293	5.14	21.8	.4	4.3	.7	26	.2	1.4	.1	71	.51	.228	19	16.8	.62	400	.013	1	1.66	.008	.10	<.1	.08	8.3	.1	<.05	5
3300E 3025N	1.4	48.9	6.8	60	.1	12.5	18.2	2313	4.33	15.1	.3	3.5	.7	18	.1	1.1	<.1	57	.43	.218	15	9.8	.56	391	.007	2	1.71	.006	.12	<.1	.06	5.6	.1	<.05	4
RE 3300E 3025N	1.4	50.8	6.7	59	.1	12.7	19.3	2456	4.42	15.0	.3	2.6	.8	19	.1	1.0	<.1	56	.43	.228	16	9.3	.60	407	.006	2	1.73	.006	.12	<.1	.07	5.7	.1	<.05	4
3300E 3000N	2.2	41.3	7.0	78	.1	14.3	14.7	1229	4.73	13.7	.4	2.2	.5	11	.1	1.0	.1	69	.16	.154	7	13.1	.57	109	.009	1	1.99	.005	.08	<.1	.07	3.3	.1	<.05	5
3300E 2975N	2.0	33.0	7.3	98	.2	29.3	11.6	663	4.50	10.6	.7	2.8	.6	48	.1	.7	.1	75	.71	.129	10	27.4	.57	672	.016	1	2.38	.010	.07	.1	.09	3.4	.1	.06	10
3300E 2950N	2.0	36.5	3.8	108	.1	63.2	19.7	824	4.57	6.0	1.1	3.3	3.1	10	.1	.3	.1	68	.26	.092	21	36.4	.95	120	.340	<1	4.40	.030	.05	.1	.05	4.3	<.1	<.05	13
3300E 2925N	2.1	65.6	6.5	65	.2	23.4	20.5	1642	4.96	13.3	.5	2.0	.4	14	.2	1.2	.1	81	.19	.116	8	20.7	.56	131	.018	1	2.29	.007	.09	.1	.05	3.7	.1	<.05	5
3300E 2900N	2.2	47.4	6.3	72	.2	38.0	19.2	921	5.28	9.5	1.8	4.9	3.0	27	.2	.6	.1	78	.46	.093	45	38.2	.59	403	.281	1	4.64	.024	.06	.2	.07	9.4	.1	.10	16
3300E 2875N	1.6	68.2	8.3	72	.2	42.6	17.9	1327	5.24	11.5	1.4	4.5	2.3	33	.2	.8	.2	82	.49	.100	37	39.7	.57	456	.183	1	3.32	.020	.06	.1	.15	9.1	.1	.09	13
3300E 2850N	3.1	27.7	8.8	103	.6	32.9	14.0	915	4.53	11.8	1.3	.5	2.4	16	.2	.8	.2	67	.18	.095	22	31.6	.55	206	.113	1	3.63	.018	.06	.3	.10	4.2	.1	<.05	15
3300E 2825N	4.7	36.9	15.2	90	.2	13.9	8.9	1093	4.58	22.8	1.7	3.4	.3	16	.4	1.4	.1	68	.09	.153	18	27.4	.25	152	.053	1	2.35	.012	.06	.1	.09	3.0	.2	.11	11
3300E 2800N	9.0	226.9	17.5	129	.8	47.3	25.7	2122	6.73	38.4	1.4	7.8	2.2	26	.4	3.1	.1	98	.17	.176	21	39.4	.58	245	.156	2	2.43	.016	.09	.1	.17	12.4	.1	<.05	9
3300E 2775N	4.2	112.6	10.8	114	.3	46.7	24.0	2139	6.04	23.0	1.1	6.6	2.6	11	.4	1.7	.1	97	.15	.164	21	41.4	.75	232	.200	1	2.84	.020	.10	.1	.07	12.1	.1	<.05	11
3300E 2750N	3.5	106.9	9.9	106	.3	50.6	25.9	1995	6.08	19.0	1.0	6.3	2.5	17	.3	1.6	.1	126	.26	.163	23	47.8	.86	263	.279	2	2.84	.031	.10	.1	.05	12.8	.1	<.05	11
3300E 2725N	1.8	110.3	8.3	105	.2	45.0	22.5	1541	5.51	15.2	.9	4.4	1.9	18	.3	1.0	.1	121	.28	.166	24	42.5	.94	225	.178	3	2.82	.022	.10	.1	.08	12.4	.1	<.05	10
3300E 2700N	1.9	91.2	10.4	108	.2	42.6	20.8	1600	5.28	15.5	.9	4.5	2.3	20	.5	1.0	.1	102	.33	.173	25	34.7	.89	224	.155	1	2.21	.028	.11	.1	.05	10.4	.1	<.05	10
3400E 3500N	3.5	47.1	34.4	142	.5	42.1	19.3	2132	5.84	16.1	1.9	4.0	3.8	23	.4	.8	.3	77	.28	.134	36	37.0	.67	234	.287	1	3.68	.027	.06	.1	.06	6.5	.1	.07	16
STANDARD DS4	6.5	119.9	30.0	149	.3	31.5	11.1	815	3.01	23.9	6.5	26.9	3.6	29	5.1	5.0	5.2	76	.49	.089	16	161.1	.59	143	.089	1	1.70	.034	.17	4.1	.03	3.8	1.0	.08	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3400E 3475N	4.4	71.5	18.5	123	.6	55.9	25.1	3582	6.25	21.2	2.2	9.6	4.8	22	.5	1.4	.1	87	.38	.130	58	40.0	1.04	180	.257	<1	4.20	.034	.08	.1	.12	9.5	.1	.06	19
3400E 3450N	2.9	33.8	35.4	155	.3	54.4	18.5	1583	5.43	17.8	.8	2.1	2.6	24	.5	.8	.1	83	.39	.103	22	39.2	.83	191	.178	<1	3.36	.022	.11	.2	.11	5.3	.1	<.05	16
3400E 3425N	5.5	75.9	41.4	84	.9	57.6	36.9	4356	6.65	44.2	1.4	2.9	2.9	44	.4	3.5	.1	83	.81	.108	37	31.2	.97	323	.159	7	3.95	.023	.09	.1	.22	10.2	.1	.06	12
3400E 3400N	6.3	94.4	19.7	152	.8	13.5	14.2	2948	7.30	49.0	1.9	14.6	1.0	103	.5	5.0	.2	33	1.26	.199	35	13.2	.28	453	.018	5	2.57	.013	.13	.1	.23	9.0	.1	.09	7
3400E 3375N	2.5	23.5	13.3	71	.1	13.1	4.9	784	5.05	16.9	2.3	1.3	3.5	15	.2	.8	.3	24	.27	.116	46	10.5	.19	166	.049	<1	4.59	.026	.08	.6	.05	4.1	.1	.07	24
3400E 3350N	5.2	41.1	14.4	52	.4	23.8	17.5	1148	6.51	24.0	.8	6.1	.8	20	.2	2.6	.1	87	.23	.100	12	46.7	.32	187	.094	1	2.14	.010	.08	.1	.11	6.0	.1	.07	15
3400E 3325N	3.4	34.1	8.6	75	.5	21.4	8.6	611	5.28	10.3	1.9	5.1	1.0	63	<.1	.8	.1	77	1.09	.109	26	39.1	.39	265	.121	1	3.22	.017	.07	.1	.20	6.8	.1	.09	16
3400E 3300N	1.7	25.4	3.4	60	.1	56.6	19.2	710	4.39	7.3	.9	3.0	2.7	14	.2	.3	<.1	56	.32	.108	20	32.5	1.02	99	.217	3	5.55	.022	.03	.1	.09	4.7	<.1	.07	13
3400E 3275N	4.0	20.1	7.3	85	<.1	26.9	13.0	675	4.99	9.4	1.4	3.2	2.2	6	.2	.5	.1	73	.12	.110	27	41.0	.38	77	.204	2	4.94	.022	.05	<.1	.07	6.3	.1	.08	20
3400E 3250N	2.3	27.5	7.1	56	<.1	29.6	14.7	1291	5.07	9.0	1.2	9.7	2.3	15	.2	.5	.1	70	.34	.086	25	34.4	.47	167	.187	<1	5.32	.016	.03	.1	.08	6.4	.1	.10	18
3400E 3225N	4.6	26.2	10.6	68	.1	17.1	10.6	933	6.91	8.9	1.1	1.9	1.4	5	.2	.7	.2	185	.06	.113	11	40.7	.30	92	.084	<1	2.76	.008	.06	.2	.15	3.8	.1	<.05	22
3400E 3200N	3.3	22.5	9.7	92	.1	21.9	11.6	895	4.79	14.7	2.5	4.2	3.9	5	<.1	.7	.2	45	.11	.090	43	23.9	.32	93	.142	<1	5.05	.032	.07	.3	.07	5.2	.1	.07	24
3400E 3175N	4.0	51.1	7.9	59	.2	48.1	16.2	703	4.78	11.8	2.2	9.3	3.4	58	.2	1.0	.1	60	.69	.085	41	29.6	.87	281	.189	2	3.05	.033	.06	<.1	.08	6.3	.1	.07	16
RE 3400E 3175N	4.7	54.2	7.3	55	.2	50.7	16.1	709	4.81	12.4	2.2	1.0	3.3	57	.1	.9	.1	59	.67	.078	42	28.8	.82	282	.186	3	2.94	.031	.06	.1	.06	6.2	.1	.12	16
3400E 3150N	22.6	127.7	30.6	104	.8	58.1	68.7	6698	6.74	40.8	5.3	1.0	.7	72	1.4	4.9	.1	52	.85	.209	40	13.0	.55	367	.011	<1	2.23	.015	.12	.1	.21	15.0	.3	.17	6
3400E 3125N	5.3	85.4	17.5	106	.5	34.4	21.0	1818	5.85	23.2	1.2	35.1	1.0	33	.3	2.3	.1	82	.48	.187	27	25.3	.77	563	.028	<1	2.51	.011	.14	<.1	.12	7.9	.2	.05	11
3400E 3100N	38.6	108.4	43.7	103	1.8	83.5	30.3	1586	5.29	52.4	2.1	12.4	2.2	67	.9	6.7	.3	100	.37	.203	15	21.0	.48	1264	.070	5	1.64	.014	.07	.1	.23	7.1	.3	<.05	7
3400E 3075N	2.3	117.4	12.7	75	.2	20.9	24.3	1894	5.03	23.8	.6	4.9	1.1	7	.2	1.4	.1	75	.08	.137	22	15.4	.65	188	.005	<1	1.84	.004	.05	.1	.17	10.6	.1	<.05	5
3400E 3050N	2.3	29.2	6.0	88	.3	33.4	13.5	741	3.95	10.2	1.7	3.7	3.5	8	.5	.6	.1	40	.22	.107	34	21.4	.56	206	.152	2	5.05	.025	.04	.3	.08	3.4	.1	.07	17
3400E 3025N	1.9	41.7	6.8	69	.1	13.4	10.3	661	4.77	15.5	.5	<.5	.5	8	.4	1.1	<.1	91	.10	.155	9	20.5	.51	145	.007	2	2.31	.006	.04	.1	.06	2.9	.1	<.05	8
3400E 3000N	11.5	149.4	25.9	129	1.5	52.1	32.2	6290	7.84	39.6	1.4	6.7	.7	78	2.0	4.9	<.1	80	.68	.190	26	13.1	.37	1171	.007	1	1.31	.008	.11	.1	.24	13.7	.3	<.05	5
3400E 2975N	3.3	56.1	12.1	204	.1	34.7	21.2	1269	5.33	26.8	.6	<.5	.6	48	.7	1.9	<.1	83	.76	.139	9	28.1	.75	494	.038	1	2.08	.010	.08	<.1	.04	5.9	.1	.10	7
3400E 2950N	5.4	117.2	15.5	108	.6	35.6	25.9	3676	7.52	37.9	1.0	<.5	1.0	44	1.1	2.6	<.1	89	.68	.157	26	24.2	.70	764	.057	6	2.03	.015	.09	<.1	.17	14.6	.1	.06	6
3400E 2925N	2.5	90.7	11.2	89	.3	23.9	20.5	2102	5.03	22.2	.6	.8	.6	10	.4	1.8	<.1	88	.18	.193	17	26.0	.63	219	.019	2	2.00	.010	.07	<.1	.05	8.6	.1	<.05	8
3400E 2900N	3.9	133.6	13.3	129	.4	31.2	25.0	3212	5.44	32.4	.5	2.4	.4	31	1.1	2.4	<.1	85	.46	.261	21	21.5	.56	360	.010	3	1.49	.006	.13	<.1	.14	9.4	.1	.05	6
3400E 2875N	2.6	43.6	6.2	118	.2	53.4	19.2	2461	6.88	12.6	1.5	1.7	3.0	33	.4	.9	<.1	82	.51	.114	36	41.7	.61	223	.207	<1	3.74	.026	.04	<.1	.10	10.1	.1	.11	13
3400E 2850N	3.0	41.0	9.1	63	.4	21.1	10.6	1016	4.68	10.5	1.3	<.5	.5	35	<.1	.8	.1	85	.54	.155	29	37.6	.46	259	.069	7	3.35	.032	.06	.1	.08	4.9	.1	.15	15
3400E 2825N	4.8	162.9	11.8	105	.6	27.9	26.1	2446	5.86	22.8	.6	.8	.5	23	.4	2.1	<.1	104	.32	.275	21	20.6	.71	270	.011	5	2.35	.007	.10	.1	.16	8.0	.1	<.05	7
3400E 2800N	3.0	27.6	8.4	71	.1	20.4	9.8	1124	5.30	11.6	1.6	<.5	1.3	11	.1	.7	.1	69	.30	.132	24	34.0	.51	129	.098	1	3.99	.026	.06	.2	.11	3.9	.1	.09	20
3400E 2775N	2.4	27.4	7.6	100	.1	25.6	12.2	1007	4.75	7.9	1.3	6.4	1.5	12	.2	.4	.1	81	.19	.129	22	39.1	.51	135	.205	3	3.72	.024	.04	.1	.04	4.3	<.1	.15	18
3400E 2750N	2.8	72.0	10.4	79	.1	31.0	26.8	2048	6.09	18.0	.8	1.6	2.5	17	.3	2.0	<.1	122	.32	.078	28	31.1	.97	446	.043	1	2.42	.012	.09	.1	.05	10.5	.2	<.05	13
3400E 2725N	1.9	95.1	11.1	112	.5	38.3	24.0	1401	5.62	17.9	.5	2.9	2.2	39	.4	1.6	<.1	107	.62	.218	26	35.8	1.14	362	.102	3	2.35	.028	.12	.1	.12	11.2	.1	<.05	9
3400E 2700N	2.2	86.7	11.4	127	.4	43.4	19.3	894	5.46	15.8	.5	2.4	2.5	42	.4	1.5	.1	91	.64	.167	28	41.9	1.05	481	.117	2	2.76	.030	.14	.1	.06	12.6	.1	<.05	10
3500E 4625N	5.7	39.6	16.4	198	.4	18.5	12.0	1627	6.08	18.8	.9	4.7	.2	12	1.1	2.1	.1	94	.18	.171	12	22.6	.48	209	.030	2	2.22	.008	.07	.1	.13	2.3	.2	.08	11
STANDARD DS4	7.1	121.1	32.4	143	.4	34.1	12.0	792	3.11	24.2	6.1	24.9	4.0	26	5.2	5.5	5.1	75	.51	.098	16	158.9	.56	147	.068	<1	1.68	.032	.18	3.9	.27	3.9	1.1	.08	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3500E 4600N	2.1	95.6	21.1	380	.2	22.2	15.4	644	4.36	15.7	9.5	5.4	.7	24	1.8	1.0	.1	69	.37	.150	24	23.0	.78	233	.045	2	2.65	.010	.08	<.1	.07	8.0	.1	<.05	8
3500E 4575N	2.4	104.2	28.0	384	.2	26.6	16.8	998	4.56	20.4	12.2	10.8	.9	37	2.3	1.3	.2	70	.46	.141	29	23.5	.75	325	.049	2	2.66	.012	.09	.1	.10	9.8	.1	<.05	9
3500E 4550N	1.9	64.9	19.2	241	.2	27.5	18.7	748	4.51	11.3	3.7	7.6	.6	48	1.8	1.1	.1	75	.67	.148	14	22.8	1.00	221	.070	3	1.94	.013	.09	.1	.06	6.3	.1	<.05	6
3500E 4525N	4.3	27.5	83.5	207	.5	13.9	12.1	1294	4.92	41.2	1.2	3.0	1.5	48	1.5	1.9	.2	81	.68	.091	16	30.1	.46	160	.168	1	3.47	.015	.03	.2	.09	2.7	.1	<.05	14
3500E 4500N	6.5	232.3	64.7	295	.3	23.2	34.9	2076	6.33	28.3	.6	37.6	.8	81	2.9	2.4	.3	60	.40	.084	19	26.1	.60	433	.007	2	2.49	.004	.09	.1	.13	11.8	.1	<.05	6
3500E 4475N	2.4	45.4	12.6	135	.1	41.9	18.9	1169	4.59	10.1	1.6	5.0	3.3	11	.6	.5	.1	61	.22	.114	33	30.0	.68	102	.286	1	4.48	.025	.04	.1	.04	5.4	.1	<.05	14
3500E 4450N	9.5	66.7	100.0	260	.5	12.7	22.7	1897	7.88	74.1	.9	6.5	.3	23	2.1	5.2	.6	77	.12	.159	13	22.3	.29	106	.044	1	2.17	.007	.08	.1	.10	1.8	.1	.15	11
3500E 4425N	7.6	453.6	911.8	5962	2.4	33.2	34.8	7770	8.11	96.0	3.7	24.9	.7	154	134.3	5.1	.3	40	2.19	.130	37	16.9	.59	760	.062	3	1.70	.007	.03	<.1	1.07	14.9	.1	.18	6
RE 3500E 4425N	7.9	473.6	881.0	6399	2.4	33.8	34.8	7865	8.45	99.8	3.6	29.5	.6	158	132.6	5.0	.3	42	2.28	.130	36	16.3	.59	764	.066	3	1.68	.007	.03	.1	1.07	14.7	.1	.20	6
3500E 4400N	4.7	87.1	72.8	92	.9	25.6	40.0	2757	11.62	284.8	.5	28.9	.3	14	.9	3.4	.9	106	.09	.197	7	50.6	.62	174	.032	<1	2.10	.005	.04	.1	.23	3.4	.1	.29	9
3500E 4375N	2.6	118.3	35.5	1352	.2	48.7	20.1	1151	5.06	20.6	1.4	10.7	2.7	79	23.0	.8	.1	58	.86	.090	20	31.3	.80	333	.330	<1	3.49	.024	.05	.1	.19	6.2	.1	.12	11
3500E 4350N	7.8	1003.5	12.7	79	.4	18.8	11.5	1497	3.90	10.2	1.9	27.5	.7	31	.3	.5	.2	48	.22	.160	37	24.0	.41	421	.098	2	3.21	.016	.05	.1	.13	5.0	.1	.16	10
3500E 4325N	10.2	242.3	21.7	57	.2	10.3	30.3	2417	7.84	92.3	.4	20.8	.2	5	.1	3.1	.6	53	.03	.109	5	13.8	.59	197	.010	<1	2.30	.002	.08	<.1	.06	1.6	.1	<.05	6
3500E 4300N	5.9	438.3	24.0	96	.7	20.9	48.0	4350	9.08	59.6	.5	44.5	.5	47	.4	2.7	.4	70	.32	.181	19	15.2	.77	1007	.014	1	1.81	.005	.14	.1	.12	13.1	.1	.18	5
3500E 4275N	4.8	197.8	14.4	261	.1	21.4	27.5	3959	5.37	28.9	1.4	11.7	.5	81	1.4	1.1	1.1	58	.48	.175	34	19.3	.72	1148	.045	1	2.53	.009	.06	<.1	.09	6.2	.1	.16	8
3500E 4250N	12.1	207.4	28.7	94	.2	19.4	30.5	6798	9.13	113.5	.7	18.0	.4	31	.3	1.8	.2	53	.35	.118	18	15.1	.41	421	.020	1	2.16	.005	.06	.1	.10	7.4	.1	.07	5
3500E 4225N	7.0	94.0	22.5	52	.8	8.4	23.3	1271	9.41	19.3	.7	12.2	.1	22	.2	1.1	.4	128	.02	.163	7	24.6	.60	762	.018	1	2.75	.004	.03	.1	.13	2.4	.1	.16	9
3500E 4200N	16.9	450.7	21.8	44	1.9	14.3	29.0	2939	8.22	45.8	1.4	78.2	.3	14	.1	1.4	.4	52	.05	.179	12	14.4	.59	711	.024	1	1.88	.005	.07	.1	.13	6.4	.1	.14	5
3500E 4175N	4.6	96.8	12.3	111	.2	38.1	26.2	1852	6.68	25.4	2.9	5.0	1.7	117	.4	1.2	.3	63	1.12	.125	31	28.4	.64	403	.172	2	2.95	.019	.08	.1	.10	7.0	.1	.16	12
3500E 4150N	7.1	71.1	13.4	151	.2	9.5	15.9	1655	6.78	30.0	.7	5.5	.3	20	.3	1.0	.3	54	.15	.084	8	17.0	.25	337	.013	<1	2.12	.006	.06	.2	.04	1.7	.1	.07	10
3500E 4125N	2.5	29.8	6.2	77	.3	33.5	19.8	1057	4.86	6.8	1.1	2.0	1.5	14	.2	.8	.1	64	.25	.079	18	33.3	.51	124	.247	<1	4.14	.017	.03	.1	.08	5.7	.1	.11	13
3500E 4100N	4.5	25.9	15.7	114	.2	12.6	17.8	3071	5.12	8.6	.9	2.7	.3	13	.5	.8	.2	85	.19	.114	10	31.8	.40	157	.115	<1	2.01	.011	.06	.1	.06	2.6	.1	.12	15
3500E 4075N	5.4	27.1	9.8	100	.1	6.7	8.7	1006	4.59	6.7	1.2	3.6	.5	14	.5	.7	.1	89	.06	.129	9	25.1	.13	368	.209	1	1.55	.007	.04	.2	.12	2.4	.1	.15	15
3500E 4050N	2.9	67.0	9.2	54	.5	25.6	20.4	2709	4.90	10.7	1.1	2.6	.5	38	.4	1.3	.1	76	.51	.107	42	26.3	.49	288	.135	2	3.07	.024	.05	<.1	.07	6.5	.1	.15	9
3500E 4025N	5.8	65.2	17.8	111	.3	21.2	17.3	1674	6.04	19.1	.6	2.9	.2	28	.3	4.5	.1	61	.30	.178	13	22.6	.37	278	.015	4	1.79	.007	.09	<.1	.08	3.0	.2	.09	6
3500E 4000N	5.3	46.3	15.8	128	.3	23.7	24.8	2009	5.88	12.8	.6	2.7	.5	43	.6	2.9	.1	60	.63	.125	15	20.8	.57	260	.081	1	1.56	.015	.11	.1	.10	4.8	.2	.07	7
3500E 3975N	5.9	81.9	16.7	144	1.2	41.5	20.9	1146	4.56	22.3	.7	5.6	.6	38	1.0	4.0	.1	68	.62	.128	18	23.8	.67	605	.026	2	1.66	.009	.12	.1	.15	8.2	.2	<.05	6
3500E 3950N	2.7	83.5	11.1	121	.2	73.8	24.7	1823	5.09	12.1	1.1	2.0	3.2	18	.3	.8	.1	69	.38	.119	27	39.0	1.37	246	.324	1	2.36	.038	.08	.1	.04	6.8	.1	<.05	11
3500E 3925N	15.7	117.7	44.2	73	2.2	34.3	44.3	2804	5.45	74.8	.3	12.2	1.2	24	1.0	4.7	.2	30	.64	.169	9	5.9	.27	708	.005	2	.77	.003	.18	<.1	.17	7.7	.1	<.05	2
3500E 3900N	2.5	46.5	7.4	97	.1	43.3	20.6	1523	5.32	10.2	1.6	2.2	3.7	18	.2	.5	.1	77	.42	.110	28	34.7	.76	214	.368	1	4.39	.028	.06	.2	.04	5.5	.1	.09	17
3500E 3875N	1.8	27.6	6.0	98	.1	38.3	19.0	1119	5.06	7.1	1.4	2.4	3.4	22	.1	.4	.1	71	.49	.107	25	32.1	.68	217	.389	1	4.74	.035	.05	.2	.03	4.7	.1	.07	15
3500E 3850N	2.9	26.5	9.4	67	<.1	24.7	13.3	895	5.33	8.6	1.4	<.5	1.7	18	.2	.6	.2	88	.38	.087	24	36.5	.54	130	.299	<1	3.51	.020	.04	.1	.06	4.7	.1	.10	22
3500E 3825N	2.3	54.8	10.5	194	.3	50.1	15.6	884	4.94	14.0	1.4	5.7	4.2	16	.5	1.2	.2	60	.35	.097	41	29.1	.83	224	.253	2	4.10	.028	.06	.2	.09	6.7	.1	.06	12
3500E 3800N	3.2	16.4	7.1	100	.1	45.1	17.1	974	4.85	7.8	1.6	3.1	3.6	24	.1	.3	.2	57	.41	.083	24	32.3	.60	106	.313	1	4.50	.025	.05	.2	.05	3.8	.1	.10	17
STANDARD DS4	7.0	123.0	33.1	142	.3	34.0	12.1	804	3.18	24.6	6.4	26.1	3.8	29	5.5	5.1	5.0	75	.59	.091	16	158.3	.59	141	.094	1	1.74	.035	.16	3.9	.27	3.7	1.1	.08	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3500E 3775N	3.4	19.5	7.1	72	.2	26.2	15.0	850	4.21	12.7	2.5	8.2	4.2	8	.2	.5	.2	50	.18	.107	42	23.4	.50	119	.246	1	5.56	.031	.05	.5	.07	3.1	.1	.09	17
3500E 3750N	2.3	31.0	8.2	79	.1	15.1	11.2	1666	3.73	6.7	1.4	20.7	.3	85	.3	.8	.3	59	1.86	.167	23	24.3	.41	1189	.059	3	2.32	.011	.06	.1	.05	2.5	.1	.18	10
3500E 3725N	3.4	43.0	13.2	78	.2	36.5	21.7	1358	6.05	8.7	1.3	6.1	1.0	45	.3	1.4	.1	91	.73	.146	23	34.4	.76	373	.165	2	3.77	.023	.06	.2	.09	5.8	.3	.13	13
3500E 3700N	5.0	35.2	28.2	52	.3	12.0	18.0	1184	6.13	18.3	1.4	6.0	.3	9	.2	1.3	.2	81	.13	.121	24	21.7	.28	104	.037	1	3.20	.013	.06	.4	.11	2.0	.1	.08	15
3500E 3675N	2.7	83.7	12.0	127	.6	42.5	21.6	1061	5.38	15.2	.7	5.3	1.0	35	.3	1.9	.1	117	.54	.169	25	48.8	1.39	708	.038	2	2.68	.013	.10	<.1	.10	10.6	.1	.07	9
3500E 3650N	6.1	119.2	11.6	75	1.4	30.4	14.1	2117	5.05	17.7	7.7	5.8	.9	88	.4	2.1	.1	74	1.42	.165	54	36.9	.62	491	.103	3	2.93	.021	.06	<.1	.26	9.1	.1	.18	10
3500E 3625N	3.3	31.3	6.7	87	.1	54.2	22.7	1198	5.45	10.0	1.6	3.6	3.4	9	.1	.4	.1	73	.23	.095	34	40.2	.98	105	.346	1	5.30	.024	.05	.2	.04	4.9	.1	.07	18
3500E 3600N	1.9	21.5	4.2	78	.2	21.4	11.4	654	3.87	6.8	1.7	5.5	2.6	21	.2	.2	.1	54	.32	.124	22	29.2	.44	171	.251	2	6.82	.023	.03	.3	.10	4.3	<.1	.08	18
3500E 3575N	2.9	31.7	7.6	109	.1	42.5	15.7	938	4.43	9.4	1.7	4.4	2.1	44	.2	.5	.1	65	.55	.134	34	34.4	.76	237	.242	2	3.44	.031	.05	.2	.04	4.7	.1	.08	14
3500E 3550N	1.6	57.3	6.4	112	.2	53.7	24.1	1396	4.84	10.4	1.3	2.5	3.4	14	.2	.5	.1	78	.31	.150	30	36.9	1.01	141	.352	1	5.64	.032	.05	.1	.08	7.6	.1	<.05	13
3500E 3525N	2.9	15.7	7.0	51	.3	14.8	10.9	646	4.73	7.3	1.1	3.2	2.2	6	.2	.4	.2	59	.11	.107	19	32.4	.31	80	.220	1	4.64	.018	.03	.4	.08	3.9	.1	<.05	17
3500E 3500N	2.2	23.9	5.5	98	.1	32.4	16.2	816	4.17	7.0	1.3	3.6	2.1	8	.1	.3	.1	68	.18	.132	26	33.7	.55	65	.291	2	4.87	.024	.04	.2	.05	4.2	.1	.07	15
3500E 3475N	2.8	22.8	7.7	108	.1	65.5	22.4	906	5.32	7.5	1.2	13.9	3.1	9	.1	.5	.1	84	.19	.114	20	52.6	1.25	72	.383	1	3.18	.031	.05	.2	.02	4.4	.1	<.05	14
3500E 3450N	2.4	36.3	7.0	98	.1	49.6	18.1	872	4.54	8.4	1.5	5.6	2.8	17	.2	.4	.1	64	.27	.111	36	35.4	.89	108	.287	1	3.02	.040	.07	.1	.05	4.6	.1	<.05	15
RE 3500E 3450N	2.4	36.1	7.1	91	.1	45.7	17.3	841	4.54	8.6	1.5	4.4	2.8	17	.2	.4	.1	64	.26	.111	38	35.7	.87	116	.286	2	3.18	.038	.07	.2	.05	4.4	.1	.06	14
3500E 3425N	2.3	20.9	5.9	70	.1	48.2	16.5	813	4.25	10.1	1.6	3.3	3.6	11	.1	.4	.1	45	.24	.079	34	26.4	.90	149	.218	1	4.30	.031	.05	.3	.04	3.0	.1	<.05	14
3500E 3400N	2.7	205.8	12.2	70	.6	31.4	13.8	881	4.79	13.8	2.8	4.5	1.7	93	.3	1.6	.2	56	1.01	.134	58	25.9	.68	360	.116	3	3.23	.025	.07	<.1	.40	10.8	.1	.14	12
3500E 3375N	4.2	50.0	14.8	87	.1	21.0	30.4	2048	5.78	24.0	1.6	<.5	1.4	7	.2	1.7	.2	70	.11	.120	34	22.6	.51	156	.054	2	3.23	.017	.07	.2	.07	5.5	.2	<.05	13
3500E 3350N	2.7	33.7	9.6	113	.1	20.1	17.7	2792	5.27	13.7	1.2	2.0	2.7	14	.6	.8	.2	64	.28	.187	27	20.7	.63	261	.072	2	3.08	.019	.08	.3	.09	5.2	.1	<.05	13
3500E 3325N	1.8	37.8	4.8	68	.1	50.4	20.1	827	4.53	8.3	1.4	2.7	3.3	13	.2	.4	.1	62	.29	.124	28	32.4	.93	103	.303	1	4.59	.031	.05	.2	.05	4.8	.1	.06	13
3500E 3300N	1.5	60.5	4.9	85	.1	58.4	21.9	943	5.03	9.6	1.7	2.5	4.8	44	.2	.4	.1	64	.64	.088	50	33.9	1.08	419	.345	2	3.65	.044	.04	.1	.06	5.7	.1	.06	13
3500E 3275N	5.3	45.8	18.3	76	.1	21.1	27.4	2338	5.33	20.7	.8	5.3	.8	31	.2	1.6	.1	66	.34	.121	20	14.4	.71	542	.008	2	2.76	.008	.09	.1	.05	3.9	.2	<.05	8
3500E 3250N	2.3	36.1	6.8	71	.1	26.5	14.7	1141	4.50	9.9	.9	1.6	.7	43	.2	.9	.1	64	.53	.142	17	24.3	.56	206	.065	2	2.85	.013	.06	.2	.04	4.4	.1	<.05	10
3500E 3225N	3.3	56.7	11.0	75	.3	38.7	18.2	1354	5.38	14.2	1.5	10.5	1.9	14	.1	1.0	.2	64	.28	.120	34	30.4	.79	448	.147	1	3.34	.021	.05	.1	.12	7.6	.1	<.05	13
3500E 3200N	4.5	31.2	10.4	71	.1	16.3	16.3	1077	5.61	13.3	.9	4.5	.6	10	.2	1.4	.2	41	.13	.103	16	18.7	.38	207	.023	1	2.37	.011	.09	.2	.06	2.5	.1	<.05	11
3500E 3175N	1.3	51.7	5.0	91	.2	50.8	17.3	832	4.57	10.6	1.7	4.0	3.0	19	.3	.5	.1	57	.36	.100	44	35.5	.91	274	.284	1	4.38	.032	.04	.1	.09	6.2	.1	.11	11
3500E 3150N	9.7	103.4	14.9	56	.2	14.2	28.0	2920	6.74	17.5	1.1	4.2	.9	22	.4	3.0	.1	47	.21	.130	31	8.2	.34	437	.007	2	1.21	.007	.08	<.1	.09	12.3	.1	<.05	3
3500E 3125N	5.0	37.3	17.0	132	.1	23.2	22.8	2774	5.98	19.8	.9	4.5	.6	8	.4	1.4	.2	80	.09	.122	13	28.5	.59	161	.034	1	2.63	.009	.08	.2	.06	2.7	.1	<.05	12
3500E 3100N	2.3	17.5	4.9	67	.1	25.0	10.3	659	4.61	7.4	1.1	3.0	3.4	12	.2	.4	.1	48	.22	.118	13	31.5	.45	116	.177	1	4.58	.017	.03	.3	.12	3.5	<.1	<.05	12
3500E 3075N	4.0	76.5	12.4	108	.5	13.7	12.2	1205	4.55	28.7	.7	2.4	.4	30	.7	1.7	.1	67	.45	.211	21	14.1	.42	600	.007	2	1.65	.007	.09	<.1	.06	7.1	.2	<.05	5
3500E 3050N	2.7	139.1	12.6	98	.4	24.7	31.9	3453	5.61	23.3	.4	4.8	1.3	26	.6	1.8	.1	94	.47	.251	22	19.9	.81	457	.016	2	1.65	.008	.11	<.1	.09	13.6	.1	<.05	6
3500E 3025N	1.6	69.0	5.5	136	.1	60.3	17.3	1126	4.92	10.2	.9	7.2	4.8	37	.3	.7	.1	48	.50	.079	47	35.6	1.13	605	.269	2	2.29	.051	.08	.1	.04	6.2	.1	<.05	11
3500E 3000N	1.4	20.2	4.9	95	.1	55.0	19.2	892	5.07	8.0	1.2	4.2	2.8	41	.2	.3	.1	58	.51	.100	21	36.7	.97	219	.308	1	4.91	.026	.03	.2	.05	4.4	<.1	.06	13
3500E 2975N	1.5	45.4	7.1	132	.2	46.9	13.4	1016	5.05	10.9	1.7	1.8	1.8	44	.2	.7	.1	70	.42	.146	46	42.2	.71	327	.181	2	3.61	.021	.05	.1	.04	8.6	.1	.12	14
STANDARD DS4	6.7	119.1	32.6	142	.3	32.8	11.3	776	2.96	24.5	6.6	30.1	4.0	27	5.3	5.5	5.2	77	.50	.098	17	167.5	.56	142	.084	2	1.75	.033	.16	4.3	.28	4.0	1.2	.06	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3500E 2950N	2.3	35.8	7.3	137	.1	48.2	17.3	941	5.11	9.3	1.2	8.0	1.5	13	.3	.5	.2	74	.18	.105	33	43.8	.59	141	.229	2	3.99	.022	.06	.1	.06	7.4	.1	.12	16
3500E 2925N	1.7	34.7	7.0	109	.2	55.3	13.4	715	5.16	10.0	1.4	6.9	2.6	65	.1	.5	.2	69	.75	.111	34	37.6	.69	349	.242	2	3.69	.033	.05	.1	.05	6.6	.1	.08	16
3500E 2900N	2.9	52.7	8.8	127	.2	61.0	21.1	1244	5.81	13.1	1.8	5.9	2.8	43	.4	1.0	.2	86	.58	.147	43	47.2	1.01	285	.243	3	3.60	.027	.06	.1	.04	8.7	.1	.08	15
3500E 2875N	2.6	79.4	12.2	144	.3	60.4	25.5	1336	6.29	17.0	1.4	3.8	3.1	25	.4	1.1	.2	102	.39	.188	38	50.9	1.23	203	.266	2	3.29	.030	.07	.2	.05	10.7	.1	<.05	15
3500E 2850N	2.2	68.3	12.9	158	.3	49.4	19.5	1226	5.68	16.9	1.5	7.3	2.9	24	.3	1.3	.2	99	.38	.170	32	47.3	1.01	267	.201	3	3.20	.028	.09	.2	.05	10.8	.1	<.05	14
3500E 2825N	2.5	84.9	12.9	139	.3	40.6	23.2	1972	5.59	17.9	.8	5.0	1.8	22	.6	1.6	.1	111	.39	.163	23	37.7	1.17	262	.105	3	2.45	.020	.08	.2	.07	9.3	.1	<.05	10
3500E 2800N	3.5	54.7	12.5	120	.1	45.0	24.3	1861	5.90	16.4	1.4	5.1	3.0	10	.3	1.2	.2	102	.17	.184	29	47.5	.95	173	.214	2	3.63	.029	.07	.2	.07	8.8	.1	<.05	15
3500E 2775N	2.8	37.0	9.2	96	.1	24.2	12.9	1061	4.63	10.9	1.5	14.2	1.5	11	.1	.7	.2	65	.16	.090	30	36.1	.45	169	.134	<1	4.13	.021	.05	.2	.08	5.4	.1	.06	17
3500E 2750N	2.7	24.6	5.3	135	.2	34.9	19.7	1168	4.40	8.7	1.7	2.7	2.6	8	.3	.4	.1	62	.20	.117	29	29.6	.55	137	.200	1	5.23	.019	.05	.3	.11	4.2	.1	.07	16
3500E 2725N	2.5	26.7	8.3	76	.1	28.8	12.4	1154	4.14	9.9	1.4	6.1	1.8	13	.3	.6	.2	56	.23	.115	28	28.2	.52	167	.170	1	3.83	.026	.06	.3	.06	4.4	.1	.08	16
3500E 2700N	2.0	44.0	7.9	103	.1	44.8	17.8	1001	4.40	10.8	1.1	1.9	2.5	12	.2	.7	.1	69	.25	.112	26	32.1	.86	146	.141	1	4.00	.019	.06	.2	.05	4.5	.1	<.05	11
3600E 3500N	3.4	19.9	9.7	119	.1	29.6	14.8	1380	5.05	13.5	2.2	3.0	3.3	7	.2	.5	.3	51	.11	.083	43	28.2	.48	116	.180	1	4.21	.030	.07	.3	.06	4.1	.1	.06	21
3600E 3475N	2.6	19.5	5.7	90	.2	30.1	13.9	1014	5.43	6.8	1.2	5.7	1.6	10	.3	.3	.2	80	.21	.079	16	47.7	.55	89	.290	1	4.63	.022	.04	.2	.10	4.9	<.1	.06	18
3600E 3450N	2.5	24.5	5.4	81	.1	57.8	18.0	847	4.55	9.4	1.8	3.0	4.1	10	.2	.4	.1	55	.26	.095	37	31.1	.96	135	.271	<1	4.69	.030	.05	.2	.04	3.7	.1	<.05	15
3600E 3425N	10.6	59.8	15.5	84	.2	21.8	26.1	2707	5.63	24.5	1.3	2.9	.2	92	.3	2.1	.2	71	1.09	.185	25	22.3	.52	441	.021	4	2.29	.009	.10	.1	.10	3.9	.2	.09	8
3600E 3400N	6.0	59.3	16.1	130	.3	40.1	22.3	1395	6.36	12.8	1.0	6.6	2.1	25	.2	1.5	.1	108	.39	.196	24	33.2	1.14	161	.157	2	2.97	.028	.07	.2	.05	8.1	.1	<.05	13
3600E 3375N	4.3	46.5	14.5	110	.2	44.8	26.9	1734	5.63	14.6	1.4	5.8	3.3	17	.2	1.2	.1	76	.25	.171	31	33.4	.85	125	.224	1	2.55	.033	.08	.2	.05	8.4	.1	<.05	13
3600E 3350N	3.5	16.6	8.0	127	.1	28.7	12.9	967	4.67	13.1	3.4	5.2	6.4	10	.1	.6	.2	45	.25	.076	42	22.3	.55	179	.220	1	4.70	.043	.07	.3	.05	3.2	.1	<.05	18
3600E 3325N	2.5	44.5	6.4	69	.3	31.9	22.4	2725	6.84	12.8	.6	3.3	1.1	20	.3	.9	.1	73	.41	.175	20	32.2	.69	448	.046	3	3.39	.009	.07	<.1	.11	8.5	.1	.06	8
3600E 3300N	4.0	80.6	12.8	99	.1	23.7	17.7	2170	4.78	14.4	1.3	9.0	1.3	14	.5	1.2	.1	56	.26	.136	27	22.8	.45	241	.107	2	3.88	.015	.07	.2	.09	4.3	.1	.10	12
3600E 3275N	2.2	79.6	8.9	144	.2	44.2	15.7	1443	4.74	11.6	1.7	7.8	2.4	81	.5	.9	.2	59	.97	.121	41	38.9	.64	436	.195	2	3.16	.033	.06	.1	.11	9.1	.1	.11	12
3600E 3250N	2.6	23.9	5.5	90	.1	36.6	18.0	847	4.19	8.2	1.2	4.8	2.9	8	.3	.4	.1	60	.24	.117	16	30.8	.70	102	.253	1	4.99	.025	.04	.2	.09	4.2	.1	.08	15
3600E 3225N	3.4	18.2	7.6	78	.2	25.5	14.1	663	4.30	9.2	1.8	4.4	1.9	6	.2	.4	.2	55	.14	.128	24	32.7	.40	97	.215	2	4.81	.023	.05	.2	.07	4.0	.1	.09	19
RE 3600E 3225N	3.4	19.0	7.9	75	.2	25.5	13.9	677	4.45	9.1	1.8	3.8	1.9	6	.2	.5	.2	53	.13	.127	23	33.7	.38	98	.199	1	4.95	.022	.05	.3	.07	3.8	.1	.09	19
3600E 3200N	3.3	38.1	11.0	111	.1	17.2	12.3	1489	5.63	11.6	.9	2.9	.2	13	.2	.9	.1	73	.18	.150	15	26.6	.37	225	.055	1	2.38	.010	.05	.1	.08	3.1	.1	.10	12
3600E 3175N	4.6	87.3	16.3	92	.7	26.9	19.8	1566	5.28	21.8	.7	11.4	.6	33	.4	1.9	.1	87	.51	.172	21	20.9	.85	477	.020	3	2.00	.011	.11	<.1	.12	8.7	.1	<.05	6
3600E 3150N	4.4	82.2	14.8	85	.4	20.0	21.6	2120	5.27	21.4	.8	4.0	.4	23	.5	3.0	.1	59	.24	.177	17	17.0	.48	467	.022	3	1.46	.011	.11	.1	.12	7.5	.2	<.05	6
3600E 3125N	4.0	117.0	20.1	127	.9	23.1	27.8	1639	4.97	24.8	.7	4.5	.6	44	1.0	2.7	.1	77	.62	.185	29	15.8	.83	727	.013	3	1.88	.008	.11	<.1	.14	8.5	.2	<.05	7
3600E 3100N	2.2	96.4	13.0	67	.6	21.5	40.1	2151	5.03	41.1	.3	10.7	2.3	61	.2	1.6	.1	62	.74	.324	24	10.7	.78	330	.006	3	1.47	.007	.17	<.1	.06	9.0	.1	<.05	5
3600E 3075N	3.1	62.6	10.2	111	.2	54.0	24.3	1603	5.29	14.2	1.4	3.6	3.9	10	.4	1.1	.1	82	.26	.141	28	37.4	1.11	137	.272	2	3.88	.030	.07	.1	.05	7.4	.1	<.05	14
3600E 3050N	4.2	58.5	10.7	103	.3	40.4	21.1	1610	5.24	15.4	1.7	8.5	2.7	6	.3	1.2	.2	79	.15	.140	31	37.0	.74	94	.196	1	3.62	.025	.06	.2	.08	7.3	.1	.07	16
3600E 3025N	4.8	64.6	18.2	127	.2	15.6	27.7	5327	5.92	17.2	.4	1.0	.1	15	1.3	1.9	.1	123	.23	.184	10	30.1	.66	294	.035	2	1.56	.010	.11	.1	.06	3.1	.2	.10	9
3600E 3000N	2.6	28.7	6.2	93	.3	28.2	11.4	605	4.48	8.1	1.6	3.6	3.1	23	.3	.5	.2	62	.47	.088	29	31.6	.47	162	.282	1	4.54	.030	.04	.3	.08	4.6	.1	.07	18
3600E 2975N	5.1	40.3	12.1	210	.1	33.8	24.4	3112	8.18	22.7	.8	16.8	1.3	17	.4	1.6	.1	105	.34	.101	17	34.3	.74	237	.032	2	2.91	.009	.07	.1	.10	6.7	.1	<.05	8
STANDARD DS4	6.3	119.9	31.4	140	.3	34.1	11.7	822	3.11	23.3	5.8	23.0	3.5	26	5.2	5.0	5.0	75	.52	.093	16	168.5	.58	142	.083	1	1.69	.032	.17	4.1	.26	3.7	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
3600E 2950N	4.0	107.4	11.2	94	.3	25.4	19.7	1748	5.30	21.0	.8	3.9	.6	13	.2	1.7	.1	94	.23	.187	26	28.0	.66	162	.024	2	2.29	.011	.07	.1	.07	7.9	.1	.08	9
3600E 2925N	2.7	62.5	8.8	126	.2	58.6	21.0	888	5.45	14.4	1.4	4.7	3.3	18	.2	.9	.1	87	.34	.149	34	48.9	1.14	166	.256	1	3.08	.035	.07	.1	.03	8.2	.1	<.05	14
3600E 2900N	1.7	142.3	10.1	73	.3	28.7	24.8	2458	4.97	21.3	.4	2.9	1.4	30	.3	1.5	.1	109	.64	.209	26	53.5	1.01	655	.005	1	1.96	.007	.07	<.1	.07	16.6	.1	<.05	6
3600E 2875N	2.5	68.4	11.5	123	.1	55.7	27.1	1691	5.90	15.0	1.2	3.0	3.0	15	.2	1.4	.1	105	.26	.129	28	43.9	1.26	170	.207	1	2.94	.023	.07	.2	.05	9.9	.1	<.05	12
3600E 2850N	2.3	72.1	11.6	117	.1	38.4	22.3	1184	5.42	13.6	.9	3.8	2.4	9	.2	1.2	.1	115	.18	.116	21	33.4	1.01	176	.099	1	4.36	.015	.06	.2	.06	6.6	.1	<.05	11
3600E 2825N	2.1	44.8	9.8	109	.4	31.2	20.1	1833	5.52	10.5	1.0	4.7	1.0	22	.4	1.0	.1	89	.41	.136	23	39.9	.70	300	.200	1	3.67	.018	.04	.1	.06	6.1	.1	.11	13
3600E 2800N	1.8	38.8	5.3	81	.1	28.7	18.0	1227	4.27	7.8	1.0	3.9	1.0	16	.5	.6	.1	68	.27	.113	24	31.8	.62	135	.163	1	4.85	.016	.04	.1	.07	5.4	.1	.08	13
3600E 2775N	3.1	19.1	6.4	70	.1	23.5	12.8	888	4.15	9.7	1.9	5.6	3.5	8	.2	.4	.2	44	.17	.105	24	23.1	.44	136	.191	<1	4.99	.028	.04	.4	.07	3.1	.1	.07	16
3600E 2750N	1.8	16.2	4.1	68	.1	25.6	17.2	1068	4.35	6.6	1.4	4.5	2.2	16	.2	.2	.1	62	.38	.109	17	33.4	.58	102	.323	<1	5.12	.025	.02	.2	.06	4.2	<.1	.11	15
3600E 2725N	4.1	147.7	17.8	117	1.0	27.4	22.8	1499	5.26	30.5	.5	3.8	.5	24	.4	5.0	.1	107	.53	.187	23	23.2	.95	185	.014	2	2.17	.008	.09	.1	.11	7.2	.2	<.05	8
3600E 2700N	7.4	103.6	23.6	165	.3	35.2	25.9	2492	6.34	40.5	.9	7.4	2.0	21	1.1	6.4	.1	80	.39	.192	29	17.8	.61	213	.083	1	1.85	.014	.06	.2	.12	8.6	.5	<.05	8
JTS 056	3.2	36.8	10.9	131	.1	28.3	21.1	1618	6.39	10.9	1.6	1.7	2.2	19	.3	.5	.2	89	.43	.095	23	44.9	.67	247	.360	1	3.40	.022	.04	.2	.05	4.8	.1	.10	19
JTS 057	1.6	56.8	8.4	87	.1	17.3	17.5	3092	4.47	24.3	.6	7.0	.4	29	.4	.8	<.1	73	.53	.181	22	15.5	.99	385	.042	2	2.04	.009	.12	.1	.03	7.2	.1	<.05	6
JTS 058	1.4	181.2	16.4	57	1.2	6.8	26.1	2362	7.60	2026.0	.2	136.4	.5	19	.1	9.4	<.1	41	.32	.173	15	3.4	1.03	494	.003	1	1.42	.003	.14	<.1	.13	10.7	.2	<.05	4
JTS 059	2.2	24.8	2.5	18	.1	3.0	11.8	4914	2.89	16.2	.6	2.9	2.0	19	.1	.6	.2	12	.44	.099	37	<1	.12	274	<.001	3	.44	.003	.11	<.1	.05	6.0	<.1	<.05	1
JTS 060	1.9	36.1	5.9	71	.1	25.2	14.6	648	4.42	8.9	1.7	8.7	.8	143	.3	.3	.1	71	1.42	.085	19	31.8	.44	281	.211	1	3.44	.016	.03	.1	.05	3.7	<.1	.07	13
RE JTS 060	2.0	36.8	6.3	77	.1	26.8	15.6	671	4.52	11.3	1.8	1.5	1.0	151	.3	.3	.1	75	1.58	.088	21	33.0	.49	304	.229	1	3.40	.019	.03	.1	.07	4.2	.1	.09	13
JTS 061	2.3	207.8	11.8	240	.2	22.2	18.5	4131	5.50	31.7	1.5	9.0	.5	163	3.0	1.9	.1	75	2.46	.143	36	17.2	.69	895	.051	3	2.10	.013	.06	<.1	.18	8.4	.1	.17	8
JTS 062	4.7	34.1	17.1	125	.2	14.6	6.7	454	4.38	17.6	1.5	3.7	1.0	8	.5	.6	.3	70	.11	.086	21	38.4	.29	80	.176	1	2.68	.026	.06	.2	.08	3.5	.1	.09	18
JTS 063	3.5	30.7	25.8	176	.2	19.8	19.2	2115	6.10	21.4	1.0	2.7	.7	15	1.1	.8	.2	116	.24	.095	13	43.2	.41	132	.205	2	2.33	.010	.05	.1	.07	3.1	<.1	.14	16
JTS 064	2.6	81.2	11.0	167	.2	32.8	15.5	1151	5.28	15.5	1.5	<.5	1.5	41	.5	.6	.2	82	.73	.115	40	39.0	.51	270	.222	1	3.65	.018	.04	.1	.07	6.2	.1	.10	16
JTS 065	1.9	130.9	18.1	224	.4	39.8	22.2	2286	5.21	29.6	1.4	5.3	1.3	92	1.4	1.1	.1	64	1.52	.145	38	30.2	.72	432	.131	2	3.81	.014	.05	<.1	.13	10.7	.1	.13	7
JTS 066	2.6	77.7	13.5	185	.1	7.6	11.3	1449	3.80	17.4	.9	3.9	.2	78	.5	.9	.2	107	1.02	.139	14	25.0	.17	295	.087	2	1.24	.008	.07	.1	.06	2.9	.1	.13	10
JTS 067	1.8	22.2	8.7	62	.1	16.0	7.8	435	3.10	6.5	.6	3.9	.2	15	.5	.4	.1	59	.13	.124	9	26.0	.36	114	.116	1	1.52	.012	.04	.1	.08	2.6	.1	.13	7
JTS 068	2.1	194.0	9.7	203	.6	31.0	15.8	1703	4.65	45.4	2.4	8.0	1.4	162	1.6	1.2	.2	59	2.01	.105	47	30.5	.60	434	.172	3	2.29	.025	.06	.1	.31	9.5	.1	.12	10
JTS 069	4.0	33.0	13.7	132	.1	15.7	19.2	2163	5.84	16.4	.7	8.3	.5	48	.4	1.1	.2	79	.47	.127	15	24.7	.52	381	.050	3	1.83	.015	.08	.3	.05	2.9	.1	.09	15
JTS 070	2.3	74.6	15.1	262	.1	40.1	16.0	1293	5.15	39.0	3.7	2.9	.9	128	1.1	1.0	.1	114	1.30	.138	30	44.4	.89	305	.211	2	2.85	.023	.06	<.1	.06	8.8	.1	.13	14
JTS 071	3.8	94.4	18.4	87	.2	27.6	22.0	1257	5.34	17.5	1.1	13.6	.5	12	.5	1.4	.2	62	.18	.163	29	25.5	.52	367	.080	2	2.44	.013	.07	.1	.07	6.0	.1	.08	9
JTS 072	11.0	59.6	14.7	175	.6	74.1	25.4	1355	5.88	16.4	3.0	6.6	3.5	20	.9	2.1	.2	80	.32	.145	38	41.8	.82	280	.281	1	4.12	.025	.05	.1	.15	7.2	.2	.06	14
JTS 073	13.8	112.7	30.3	196	1.1	37.8	25.5	2663	5.81	46.8	1.8	9.8	.2	21	1.7	4.3	.2	96	.28	.247	15	24.8	.63	523	.010	2	1.97	.007	.08	.1	.18	3.9	.3	.09	7
JTS 074	6.9	74.1	13.8	207	1.0	39.1	16.6	1013	4.29	25.1	1.3	5.7	.2	10	2.0	6.6	.1	58	.14	.126	15	22.5	.21	194	.041	3	1.49	.010	.06	.1	.17	3.0	.2	.09	6
JTS 075	6.2	49.8	20.3	236	.3	25.0	11.7	1308	4.74	21.7	1.1	1.1	.3	7	2.0	3.7	.1	64	.08	.103	15	30.4	.27	144	.062	2	1.59	.011	.06	.1	.08	2.9	.2	.09	8
JTS 076	6.9	105.7	29.6	192	1.6	35.4	16.6	1321	4.70	37.0	1.3	6.5	.2	8	1.3	6.8	.1	56	.12	.101	18	21.5	.42	254	.009	2	1.32	.007	.06	<.1	.28	4.0	.2	<.05	4
JTS 077	4.3	33.0	11.0	132	.4	28.9	21.5	1918	4.92	11.3	1.1	7.6	.6	12	1.7	2.6	.1	55	.15	.112	18	35.5	.30	151	.128	<1	2.66	.013	.04	.1	.10	3.3	.1	.13	11
STANDARD DS4	6.3	128.3	32.2	147	.3	34.2	12.2	779	3.15	23.5	6.4	25.0	3.5	28	5.2	4.9	4.9	75	.59	.093	16	160.6	.58	136	.085	1	1.73	.032	.16	3.9	.27	3.9	1.1	.10	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
JTS 078	2.4	29.3	8.3	131	.3	30.1	18.8	1460	4.38	8.4	.9	4.0	.4	13	.9	1.2	.1	62	.20	.106	18	32.9	.36	136	.143	1	3.20	.012	.04	.2	.07	3.1	.1	.12	13
JTS 079	4.3	42.8	26.3	193	.4	20.9	13.8	2127	5.30	14.8	.6	2.4	.2	21	2.0	2.5	.1	68	.44	.153	8	26.5	.26	408	.075	3	1.19	.009	.06	.1	.07	2.4	.1	.11	8
JTS 080	3.5	145.3	9.2	224	.4	32.6	17.6	2070	4.14	15.5	.7	3.0	.1	21	2.0	2.2	.1	67	.48	.156	21	24.6	.56	273	.032	3	2.15	.007	.08	<.1	.09	5.4	.3	.08	7
JTS 081	3.3	50.8	13.7	132	.4	44.0	17.6	1366	4.97	16.2	1.0	3.5	.9	18	.7	2.2	.1	58	.27	.120	23	31.1	.51	211	.143	3	3.40	.014	.06	.1	.10	5.6	.1	.09	11
JTS 082	3.9	39.8	14.5	125	.2	21.9	14.4	1876	5.18	11.6	.9	.9	.3	28	.8	1.9	.2	75	.57	.149	11	33.4	.29	419	.072	2	1.52	.012	.10	.1	.04	2.1	.1	.13	12
JTS 083	5.1	56.9	16.2	189	.7	35.1	19.7	1566	5.16	21.6	1.3	4.5	.4	49	1.6	3.7	.2	74	.98	.145	23	33.4	.50	514	.058	5	2.26	.014	.08	.1	.14	6.3	.2	.08	9
JTS 084	4.5	47.7	19.0	64	.2	28.3	12.5	1227	6.16	31.2	1.0	2.6	.2	14	.2	6.0	.1	60	.21	.152	10	28.0	.29	205	.015	4	1.68	.005	.09	<.1	.08	2.5	.2	.09	7
JTS 085	3.5	28.1	9.4	103	.2	26.8	12.5	1517	5.36	12.6	1.2	4.2	.9	19	.4	1.0	.2	60	.31	.099	15	33.5	.32	365	.142	2	2.40	.016	.08	.1	.06	3.7	.1	.11	15
JTS 086	2.3	27.3	8.1	150	.3	27.5	15.1	1546	5.23	14.1	.9	2.7	.7	24	1.1	1.0	.2	70	.42	.118	17	35.3	.40	436	.170	2	2.30	.018	.06	.1	.05	4.6	.1	.09	14
JTS 087	1.8	24.3	4.8	90	.2	37.7	17.3	1192	4.85	7.1	1.2	3.4	2.2	23	.2	.4	.1	65	.41	.101	23	31.2	.54	181	.298	3	4.63	.023	.04	.1	.05	4.9	.1	.13	15
JTS 088	3.5	97.9	16.9	89	.3	22.3	23.5	2583	6.17	38.1	.6	1.4	.3	11	.7	4.5	.1	43	.19	.203	8	16.3	.33	206	.007	4	1.40	.003	.11	<.1	.06	2.9	.2	.10	4
JTS 089	3.0	44.7	13.5	152	.2	28.0	22.8	3120	5.28	11.4	.7	1.6	.3	20	1.0	1.6	.1	101	.26	.153	11	35.0	.56	352	.110	3	2.20	.012	.08	<.1	.07	3.8	.1	.07	12
JTS 090	2.7	21.4	6.5	113	.3	39.5	15.0	949	4.79	7.4	1.0	<.5	1.5	16	.4	.6	.1	66	.31	.110	20	38.3	.65	178	.261	2	3.52	.016	.05	.2	.07	4.2	.1	.08	14
RE JTS 090	3.0	24.1	6.6	117	.3	44.4	16.2	960	5.09	7.6	1.2	4.0	1.8	17	.5	.6	.1	70	.32	.103	21	37.3	.66	187	.250	<1	3.41	.015	.05	.2	.07	4.2	<.1	.08	15
JTS 091	3.6	237.0	14.2	88	.7	33.5	16.9	3384	3.89	21.1	3.9	6.5	.6	107	.8	2.8	.1	62	2.07	.156	27	31.9	.53	855	.079	6	2.21	.014	.07	<.1	.25	11.6	.1	.16	6
JTS 092	2.6	33.9	10.3	192	.1	33.4	17.5	2545	4.87	10.5	1.4	<.5	1.3	53	.8	.6	.2	66	.95	.143	22	32.6	.64	423	.189	2	2.78	.022	.06	.1	.04	5.3	.1	.11	14
JTS 093	3.9	25.7	11.9	84	.2	19.1	16.0	2100	4.72	10.3	1.3	1.0	.6	37	.4	.6	.4	79	.68	.118	21	29.8	.45	484	.121	2	2.22	.013	.07	.1	.06	3.2	.1	.11	15
JTS 094	2.9	19.5	9.0	95	.3	21.4	13.2	1080	5.09	9.8	1.2	.9	1.5	20	.6	.6	.2	59	.38	.091	20	29.4	.53	169	.192	<1	3.44	.020	.05	.2	.07	3.8	.1	.11	17
STANDARD DS4	6.5	124.8	32.0	149	.3	33.4	11.3	770	3.01	24.0	6.0	28.0	3.6	30	5.2	5.2	5.0	71	.52	.092	16	163.3	.59	144	.091	1	1.65	.034	.16	4.0	.26	3.7	1.0	<.05	6

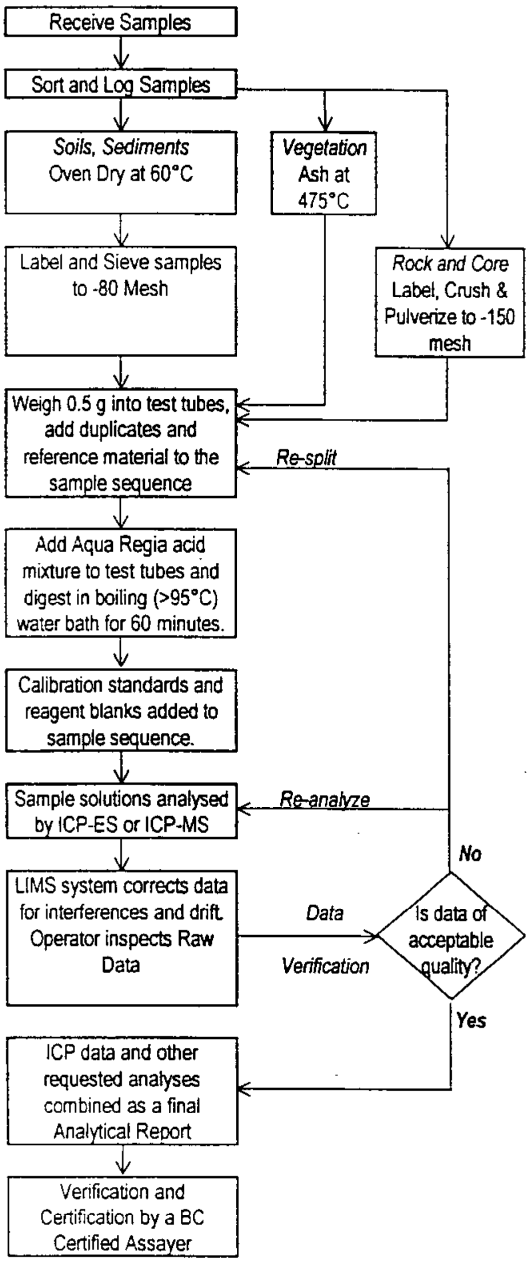
Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

Appendix VI Acme Lab Procedures

Methods and Specifications for Analytical Package
Group 1D & 1DX - ICP & ICP-MS Analysis – Aqua Regia

Analytical Process



Comments

Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-177 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mats are dried (60°C) and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into test tubes.

Sample Digestion

A 2:2:2 solution of concentrated ACS grade HCl, HNO_3 and de-mineralised H_2O (modified Aqua Regia) is added to each sample to leach for one hour in a hot water bath (>95°C).

Sample Analysis

Group 1D: solutions aspirated into a Jarrel Ash AtomComp 800 or 975 ICP emission spectrometer are analysed for 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: solutions aspirated into a Perkin Elmer Elan6000 ICP mass spectrometer are analysed for 36 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, *Ga*, *Hg*, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, *S*, Sb, *Sc*, *Se*, *Tl*, Sr, Th, Ti, U, V, W, Zn.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 34 samples. QA/QC protocol incorporates a sample-prep blank (SI or G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), two reagent blanks to measure background and aliquots of in-house Standard Reference Materials like STD DS4 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: Method and Specifications for Group 1D&1DX.doc	Date: Feb 4, 2003	Prepared By: J. Gravel

852 East Hastings Street • Vancouver • British Columbia • CANADA • V6A 1R6
Telephone: (604) 253-3158 • Facsimile: (604) 253-1716 • Toll Free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

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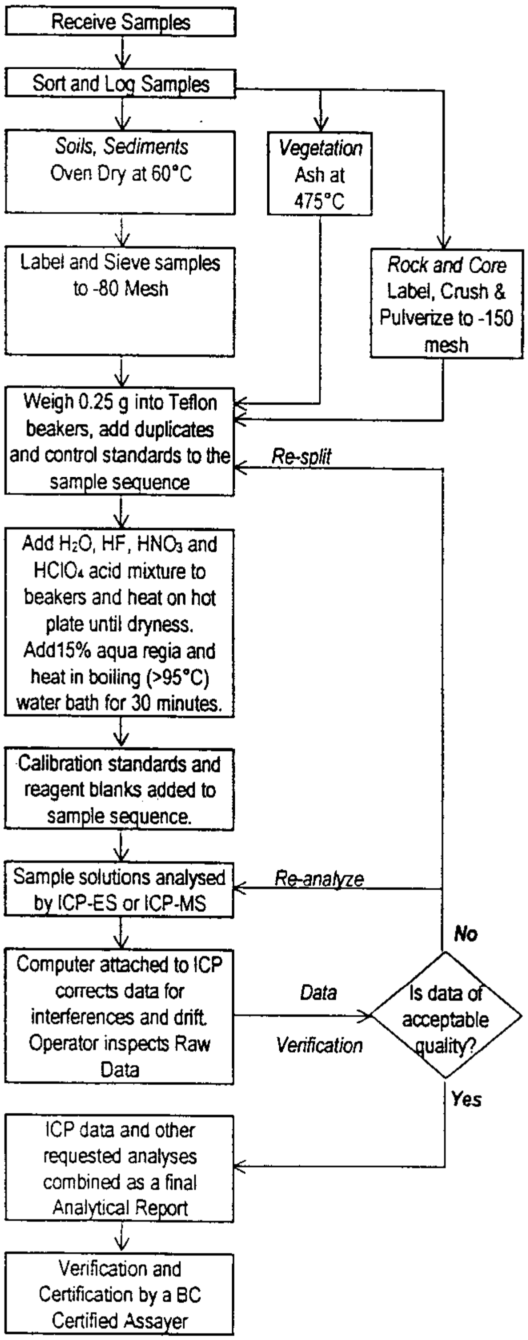
ANALYTICAL LABORATORIES LTD.

852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 1R6
Telephone: (604) 253-3158 • Fax: (604) 253-1716 • Toll free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 1E & 1EX - ICP ANALYSIS – TOTAL DIGESTION

Analytical Process



Comments

Sample Preparation

Soil or sediment is dried (60°C) and sieved to -80 mesh (-177 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mats are dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Aliquots of 0.25 g are weighed into Teflon beakers. QA/QC protocol requires inserting two duplicates of pulp to measure analytical precision, a coarse (10 mesh) rejects duplicate to measure method precision (trench and drill core samples only) and an aliquot of in-house reference material STD DST3 to measure accuracy in each analytical batch of 34 samples.

Sample Digestion

The 4-Acid solution of 18:10:3:6 H_2O-HF-$HClO_4$-HNO_3 (ACS grade) is added to each sample, heated to fuming on a hot plate and taken to dryness. The residue is dissolved in dilute (15%) aqua regia of 2:2:2 HCl-HNO_3-H_2O (ACS grade) heated in a boiling water (>95°C) bath for 30 minutes. QA/QC protocol requires simultaneous digestion of two regent blanks randomly inserted in each batch.

Sample Analysis

Group 1E: sample solutions are aspirated into a Jarrel Ash AtomComp 800 or 975 ICP emission spectrograph to determine 35 elements: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Sb, Sc, Sr, Th, Ti, U, V, W, Y, Zn, Zr.

Group 1EX: sample solutions are aspirated into a Perkin Elmer Elan 6000 ICP mass spectrometer to determine 41 elements: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, *Ce*, Co, Cr, Cu, Fe, *Hf*, K, La, *Li*, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, *Rb*, *S*, Sb, Sc, Sr, *Ta*, Th, Ti, U, V, W, Y, Zn, Zr.

Data Evaluation

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

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852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 1R6
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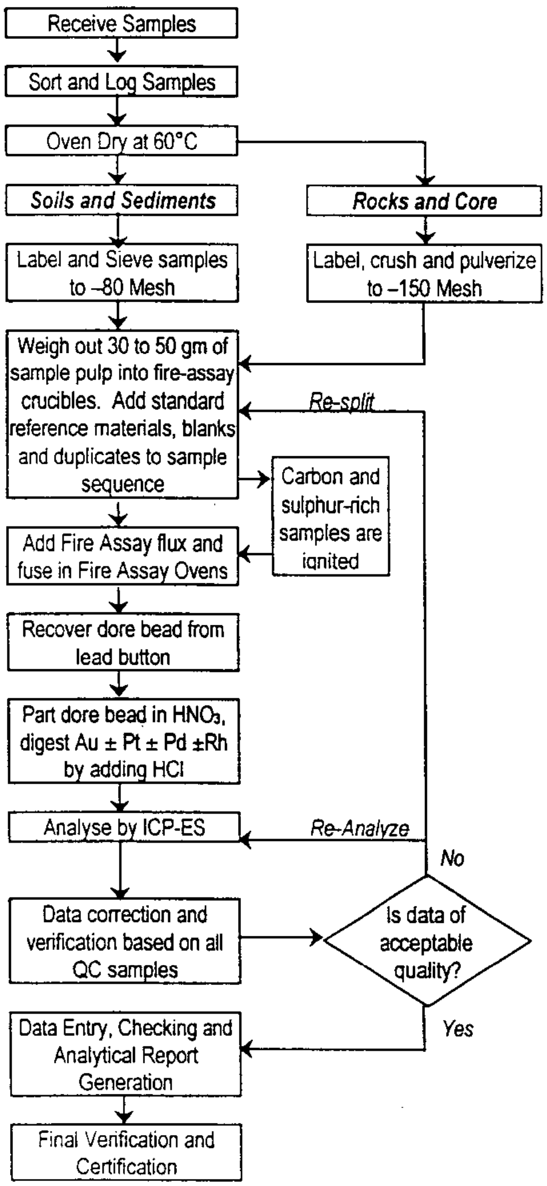
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 3B - PRECIOUS METALS BY FIRE GEOCHEM

Analytical Process



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh ASTM (-177 µm). Rocks and drill core are crushed and pulverized to 95% -150 mesh ASTM (-100 µm). Splits of 30 gm (client may select 50 gm option) are weighed into fire assay crucibles. Quality control samples comprising blanks, duplicates and reference materials Au-S, Au-R, Au-1 or FA-100S (in-house standard reference materials) added to each batch of 34 samples monitor background, precision and accuracy, respectively.

Sample Digestion

A fire assay charge comprising fluxes, litharge and a Ag inquart is custom mixed for each sample. Fusing at 1050°C for 1 hour liberates Au, Ag, Pt and Pd. For Rh > 10 ppb, a Au inquart is used. After cooling, lead buttons are recovered and cupeled at 950°C to render Ag ±Au ±Pt ±Pd or Au ±Pt ±Pd ±Rh dore beads. Beads are weighed then leached in hot, conc. HNO_3 to dissolve Ag leaving Au (± PGE) sponges. Concentrated HCl is added to dissolve the sponges. Au inquart beads (Rh analysis) are dissolved in Aqua Regia.

Sample Analysis

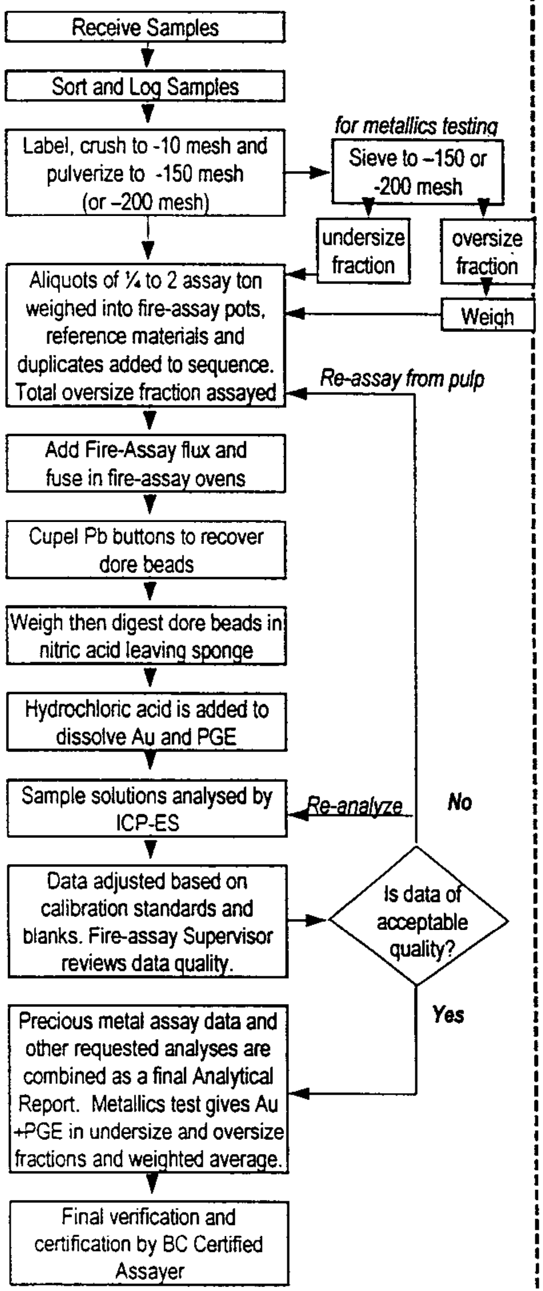
Au, Pt, Pd and Rh are analysed in sample solutions by ICP-AES (Jarrel Ash AtomComp model 800 or 975). Rh can be determined quantifiably up to 10 ppb from a Ag inquart fusion digestion, however a Au inquart must be used to accurately determine higher concentrations.

Data Evaluation

Data is inspected by the Fire Assay Supervisor then undergoes final verification by a British Columbia Certified Assayer who signs the Analytical Report before release to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 6 - PRECIOUS METAL ASSAY

Analytical Process



Comments

Sample Preparation

Rock and drill core is jaw crushed to 75% passing 10 mesh (1.7 mm), a 250 g aliquot is riffle split and pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill (pulverizing to 95% passing 200 mesh is available). Splits of ¼ (7.3 g) to 2 (58.4 g) assay tons are weighed into fire assay crucibles. QA/QC protocol includes inserting into each batch of 34 samples: two analytical blanks (background), a pulp duplicate (analytical precision), a rejects duplicate (method precision for drill core samples only) and two in-house reference material aliquots of either STD Au-1, STD Ag-2 or STD FA-10R (accuracy). Results are in imperial (oz/t) or metric (gm/mt) measure. For metallics assaying, a 500+ g split is pulverized and sieved to 150 or 200 mesh. Oversize material is assayed in total. A 1 or 2 assay ton aliquot of the undersize material is also assayed.

Sample Digestion

A fire assay charge comprising fluxes, litharge and a Ag inquart is custom mixed for each sample. A Au inquart is used for quantitative Rh analysis. Fusing at 1050°C for 1 hour liberates Au, Ag, Pt, Pd and Rh. The Pb button is recovered after cooling and cupeled at 950°C to render a Ag (± Au, Pt, Pd, Rh) dore bead. After weighing, the bead is parted in HNO_3 then digested by adding HCl. Au inquart beads (Rh analysis) are dissolved in Aqua Regia.

Sample Analysis

The solutions are analyzed by ICP-ES (Jarrel Ash Atom-Comp model 800 or 975) to determine Au, Pt, Pd and Rh. Au or PGEs over 1 oz/t are determined by gravimetric finish. Ag is determined both by fire assay and wet assay with values > 10 oz/t reported from fire assay and values <10 oz/t reported from the wet assay. Metallic Assay reports give concentrations of Au ±PGEs in the oversize fraction, the undersize fraction and the calculated weighted average of these fractions.

Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: Methods and Specifications for Group 6.doc	Date: August 2002	Prepared By: J. Gravel